

ORDER NO.ODSD020846C1

B13

Service Manual

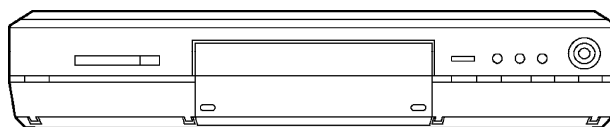
DVD Video Recorder

DMR-HS2PP / DMR-T3040P

Colour

(K).....Black Type (HS2PP Only)

(S).....Silver Type (T3040P Only)



SPECIFICATIONS

Specifications

Power supply:	AC120 V, 60 Hz
Power consumption:	36 W
Recording system:	DVD video recording standards (DVD-RAM), DVD video standards (DVD-R)
Hard disc drive Capacity:	40GB
Optical pick-up:	System with 1 lens, 2 integration units (662 nm wavelength for DVDs, 790 nm wavelength for CDs)
Recordable discs:	12 cm 4.7 GB DVD-RAM discs 12 cm 9.4 GB DVD-RAM discs 8 cm 2.8 GB DVD-RAM discs 12 cm 4.7 GB DVD-R discs (for General Ver. 2.0)
Recording time (1):	Max. 6 hours (using 4.7 GB disc) XP: 1 hour SP: 2 hours LP: 4 hours EP: 6 hours

Recording time (2):	Max. 52 hours (using Hard disc drive) XP: 8.5 hours SP: 17 hours LP: 34 hours EP: 52 hours
Region number:	Region No.1
Discs played:	12 cm 4.7 GB DVD-RAM discs 12 cm 9.4 GB DVD-RAM discs 8 cm 2.8 GB DVD-RAM discs 12 cm 4.7 GB DVD-R discs (for General Ver. 2.0) DVD-VIDEO discs CD-Audio discs (CD-DA) VideoCD discs CD-R/ CD-RW discs (CD-DA, Video CD formatted discs)
Video system	
TV system:	NTSC system, 525 lines, 60 fields
Recording system:	MPEG2 (Hybrid VBR)
Input:	LINE (pin jack), 1.0 Vp-p; 75 Ω S connector Y: 1.0 Vp-p; 75 Ω C: 0.286 Vp-p; 75 Ω
Output:	LINE (pin jack), 1.0 Vp-p; 75 Ω S connector Y: 1.0 Vp-p; 75 Ω C: 0.286 Vp-p; 75 Ω
Component video output (480p/480i):	Y: 1.0 Vp-p; 75 Ω PB: 0.7 Vp-p; 75 Ω PR: 0.7 Vp-p; 75 Ω
Antenna reception input:	TV Channel: 2ch-69ch, 75 Ω CATV Channel: 1ch-125ch, 75 Ω
Audio system	
Recording system:	Dolby Digital (XP/SP/LP/EP) LINEAR PCM (XP mode only)
Input:	LINE (pin jack) Reference input: 309 mVrms FS: 2 Vrms (1 kHz, 0 dB) Input impedance: 47 k Ω
Output:	LINE (pin jack) Reference output: 309 mVrms FS: 2 Vrms (1 kHz, 0 dB) Output impedance: 1 k Ω (Load impedance: 10 k Ω)

Number of channels:	Recording: 2 channels Playback: 2 channels
Other input/output connectors:	Digital audio optical output connector (PCM, Dolby Digital, DTS)
Dimensions:	Approx. 430 (W)×79 (H)×306 (D) mm [Approx. 1615/ 16“(W)×31/ 8” (H)×121/ 16” (D)] (excluding protrusions)
Mass:	Approx. 4.5 kg (9.9 lbs)
Operating temperature range:	5°C-40°C (41°F-104°F)
Operating humidity range:	10%-80% RH (no condensation)
Clock unit:	Quartz-controlled 12-hour digital display

LASER Specification

Class I LASER Product

Wave length:	775-815 nm 655-666 nm
Laser power:	No hazardous radiation is emitted with the safety protection.
DV Input:	IEEE1394 Standard, 4 pin
PC card slot:	PC Card Type II
Compatible media:	A PC Card adaptor conforming to PC Card Standards PC Card adaptor (SD Memory Card, Multi Media Card, Compact Flash, Smart Media, Memory Stick)
Format:	FAT12 or FAT16
Image format:	JPEG conforming to DCF (Design rule for Camera File system) DPOF Compatible
Number of pixels:	320×240 to 6144×4096 (sub sampling; 4:2:2 or 4:2:0)
Thawing time:	Approx. 7 sec. (2 M pixels)

Power consumption in standby mode:

approx. 3.3 W

Notes:

Mass and dimensions are approximate.

Specifications are subject to change without notice.

Notes:

The part of DVD RAM Drive (VXY1748) is listed separately.

Please refer to ORDER NO. DSD0207004C0.

1. COMPARISON CHART

Below chart is mentioned different items for each models.

PARTS NAME	PART NO.	DMR-HS2PP-S	DMR-T3040P-K
POWER SUPPLY P.C.B.	ETXMM387A4F	●	---
	ETXMM421A4F	---	●
TOP COVER	RKM0467-S	●	---
	RKM0467-K	---	●
REAR PANEL	RGR0328B-B	●	---
	RGR0328E-B	---	●
FRONT PANEL ASS'Y	RYP1142A-S	●	---
	RYP1142E-K	---	●
PACKING CASE	RPG6045	●	---
	RPG6217	---	●
PC CARD BLINDER	RKF0648-S	●	---
	RKF0648-K	---	●
FL ORNAMENT	RGK1541-Q	●	---
	RGK1541-K	---	●
TRAY ORNAMENT	RGK1528B-S	●	---
	RGK1528B-K	---	●
FRONT ORNAMENT	RGK1527B-S	●	---
	RGK1527B-K	---	●
AC CORD	K2CB2CB00006	●	---
	VJA0488	---	●
NAVI BUTTON	RGK1530-S	●	---
	RGK1530-K	---	●

Note:

Only DMR-T3040P-K have 3 of connector set to convert RCA pin to BNC type as accesary. However, these connector is not supplied.

2. SAFETY PRECAUTIONS

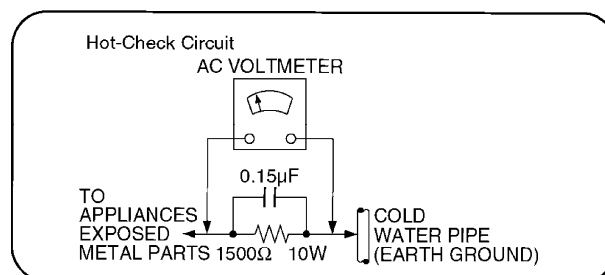
2.1. GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

2.1.1. LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between $1\text{M } \Omega$ and $5.2\text{M } \Omega$. / When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

Figure 1



2.1.2. LEAKAGE CURRENT HOT CHECK (See [Figure 1](#) .)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a $1.5\text{k } \Omega$, 10 watts resistor, in parallel with a $0.15 \mu \text{ F}$ capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in [Figure 1](#).
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above

measurements.

6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

3. PREVENTION OF ELECTRO STATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of

a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by Δ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

4. Precaution of Laser Diode

CAUTION:

This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pickup lens.

Wave length: 775-815 nm/655-666 nm

Maximum output radiation power from pickup: 100 μ W/VDE

W/VDE

Laser radiation from the pickup lens is safety level, but be sure the followings:

1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

ACHTUNG:

Dieses Produkt enthält eine Laserdiode.

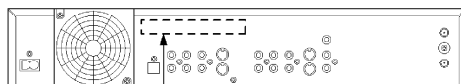
Im eingeschalteten Zustand wird unsichtbare Laserstrahlung von der Lasereinheit abgestrahlt.

Wellenlänge: 775-815 nm/655-666 nm

Maximale Strahlungsleistung der Lasereinheit: 100 μ W/VDE

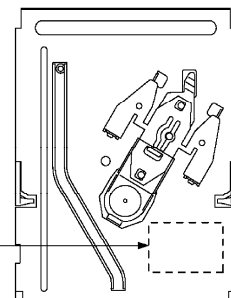
Die Strahlung der Lasereinheit ungefährlich, wenn folgende Punkte beachtet werden:

1. Die Lasereinheit nicht zerlegen, da die Strahlung an der freigelegten Laserdiode gefährlich ist.
2. Den werkseitig justierten Einstellregler der Lasereinheit nicht verstellen.
3. Nicht mit optischen Instrumenten in die Fokussierlinse blicken.
4. Nicht über längere Zeit in die Fokussierlinse blicken.



Product complies with DHHS
Rules 21 CFR Subchapter J in
effect at date of manufacture.
Matsushita Electric Industrial
Co., Ltd.
Kadoma, Osaka, Japan

DANGER	- VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.
CAUTION	- VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. (IEC60825-1)
ATTENTION	- RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. ÉVITEZ L'EXPOSITION DANGEREUSE AU FAISCEAU.
ADVARSEL	- SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO!	- AVATTAESSA OLET ALTITAIN NÄKYVÄÄ JA NÄKYMÄTÖN LASERISÄTELYLLE. ÄLÄ KATSO SÄTEELSEN.
VARNING	- SYNLIK OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. SEJÄMTE FÖR STRÅLNING.
ADVARSEL	- SYNLIG OG USYNLIG LASERSTRÅLING NÄR DEKSEL ÅPNES. UNND ÅRSÆTNING FOR STRÅLING.
VOORSICHT	- SICHTBARE UND UNSICHTBARE LASERSTRÄHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEN STRAHL AUSSETZEN.
注意	- 打开时有可见及不可见激光辐射。避免激光束照射。
注意	- 本产品含有不可见激光辐射。请勿直视。 ROL50233



CAUTION!
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN
THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

5. How to replace the Lithium Battery

REPLACEMENT PROCEDURE

1. Remove the Top cover and DVD-RAM drive unit with Main P.C.B. by referring the Disassembling Procedure.
2. Unsolder the Lithium Batteries: B7501 and then replace it into new

one.
(As shown in 16.3. The Main P.C.B.)

NOTE:

The lithium battery is a critical component. (Type No.: CR2354-1GUF Manufactured by Panasonic.)
It must never be subjected to excessive heat or discharge.

It must therefore only be fitted in equipment designed specifically for its use.

Replacement batteries must be of the same type and manufacture.

They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.

Do not attempt to re-charge the old battery or re-use it for any other purpose.

It should be disposed of in waste products destined for burial rather than incineration.

(For English)

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the equipment manufacturer.

Discard used batteries according to manufacturer's instructions.

(For French)

PRECAUTION

Le fait de remplacer incorrectement la pile peut présenter des risques d'explosion.

Remplacer la pile uniquement par une pile identique ou de type équivalent recommandée par le fabricant. Se débarrasser des piles usagées conformément aux instructions du fabricant.

6. Handling the Lead-free Solder

6.1. About lead free solder (PbF)

Distinction of PbF P.C.B.:

P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.

Caution:

- **Pb free solder has a higher melting point than standard solder;**
Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to 700 ± 20°F (370 ± 10°C).
- **Pb free solder will tend to splash when heated too high (about 1100°F/ 600°C).**
- **When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.**

7. General Description

7.1. Control reference guide

7.2. PC card

7.3. Still pictures (JPEG)

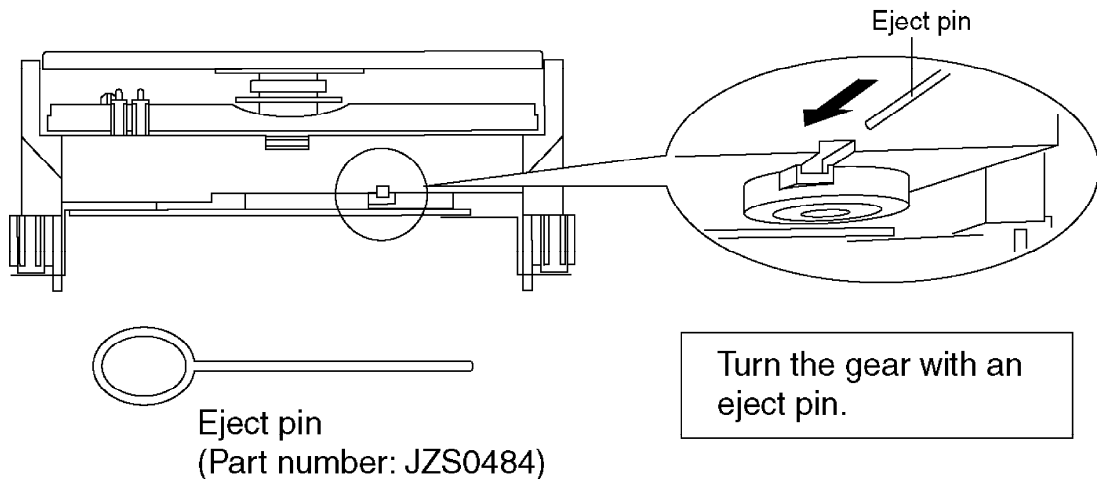
7.4. Accessories

8. Notes When Servicing the Unit

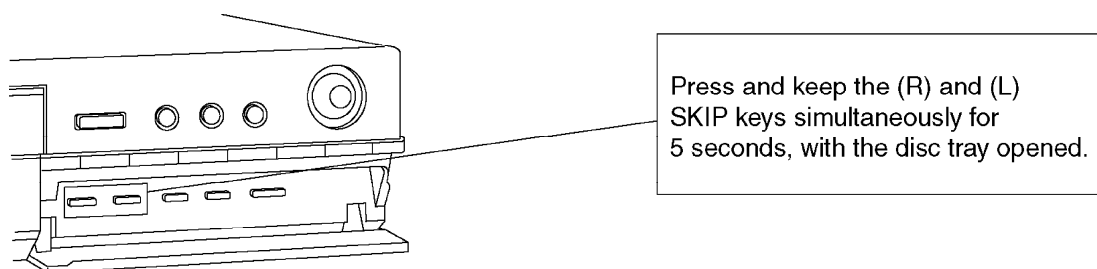
Perform the servicing according to the following procedures.

8.1. When the disc of a customer cannot be pulled out due to a failure

1. Remove the top case and front case according to the disassembly procedures of each component.
2. Insert the eject pin into the hole on the front side of the drive to push the gear inside the hole several times. Then the tray opens slowly. (The operation is as same as the operation in the RAM drive)



8.2. When the ratings password is forgotten



8.3. When the disc cannot be taken out due to sales demonstration lock function

(Press the open/close key and make sure that "LOCKED" appears on the display window.)

In this condition, press the "Stop" and "Power" buttons simultaneously for 5 seconds while the unit is standstill, releasing the lock function.

(To make the unit "LOCKED" condition, press the "Stop" and "Power" buttons simultaneously for 5 seconds while the unit is standstill.)

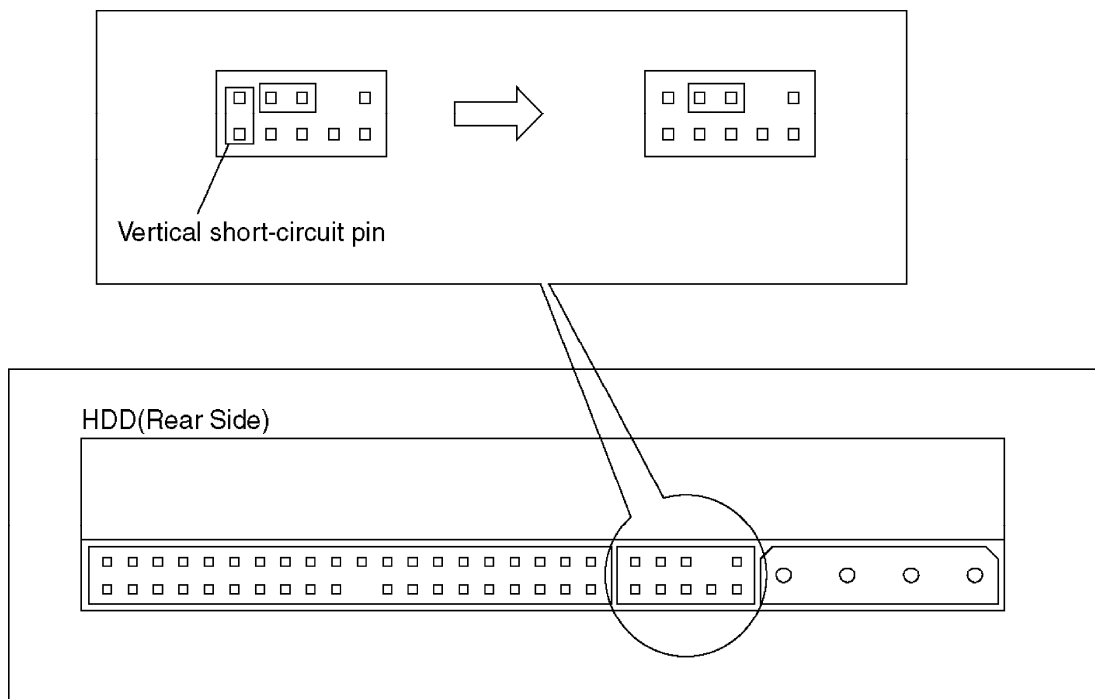
8.4. Handling of HDD

The following precautions should be taken when handling HDD.

1. **Never give an impact to HDD. (Even a drop from 1cm height can be a cause of HDD failure.)**
2. **When placing HDD on a workbench, provide a mat on a bench for shock absorption and anti-static purposes.**
3. **When installing HDD, release it from your hands only after confirming that it is fully set on the chassis.**
4. **Avoid stacking up HDD.**
5. **HDD is unstable and easy to fall. Do not stand it on its side face.**
6. **When handling HDD, hold its side faces to avoid static hazard.**
7. **Do not place HDD on its wrapping bag after removal. (Prevention of static hazard)**
8. **Use a screwdriver with low impact and anti-static features.**
9. **To replace HDD, remove the vertical short-circuit pin.**

Note:

Keep the horizontal short-circuit pin in its place.



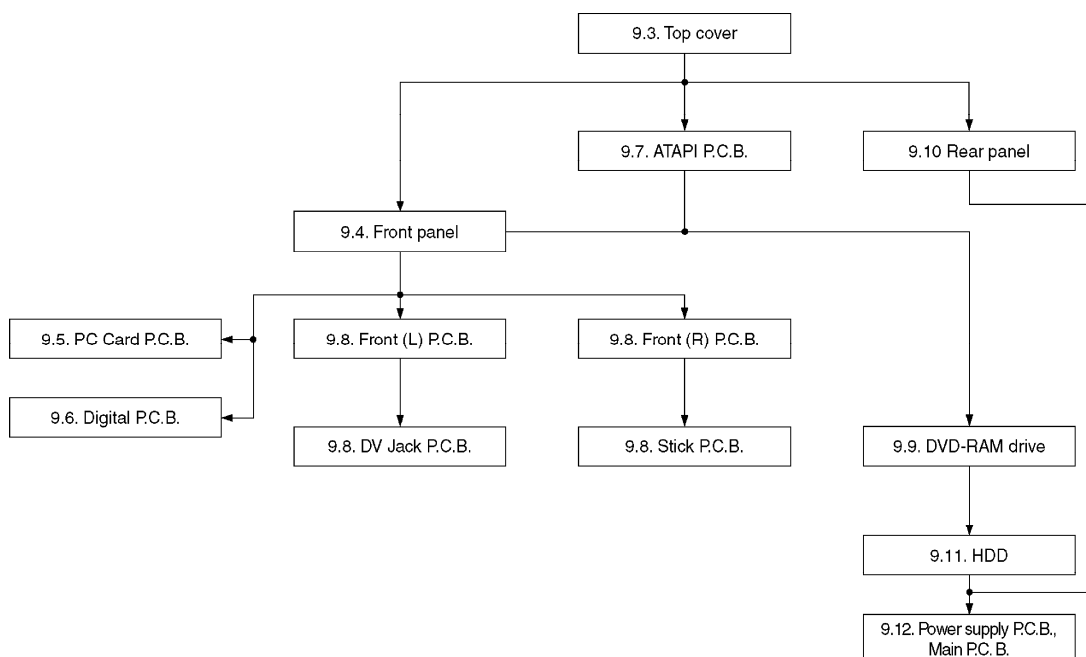
9. Assembling and Disassembling

9.1. Disassembly flow chart

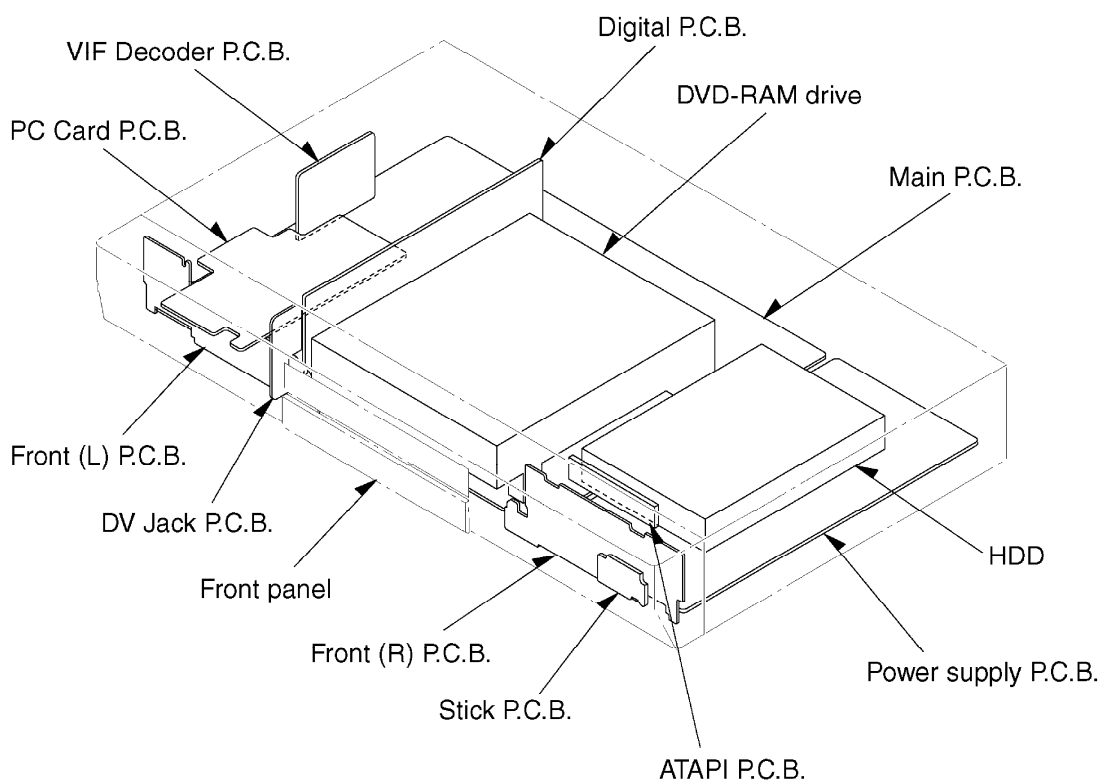
The following chart is the procedure for disassembling the casing and inside parts for internal

inspection when carrying out the servicing.

To assemble the unit, reverse the steps shown in the flow chart below.



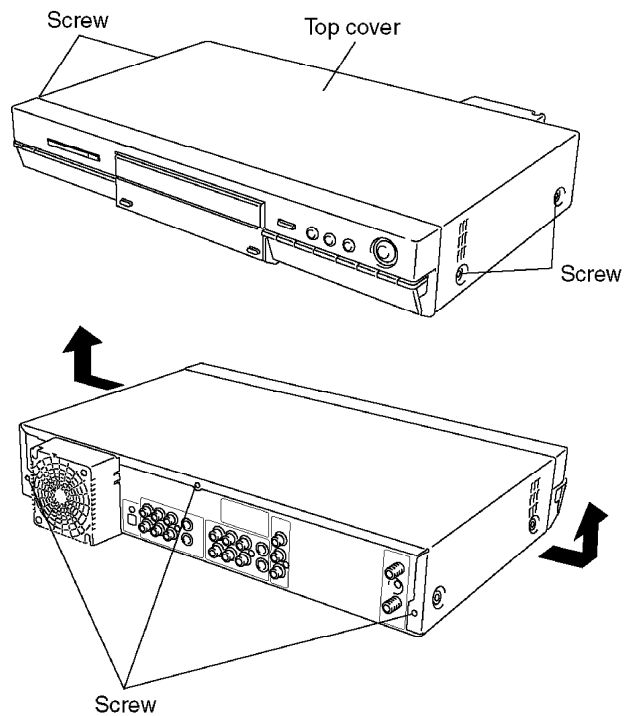
9.2. P.C.B. positions



9.3. The Top cover

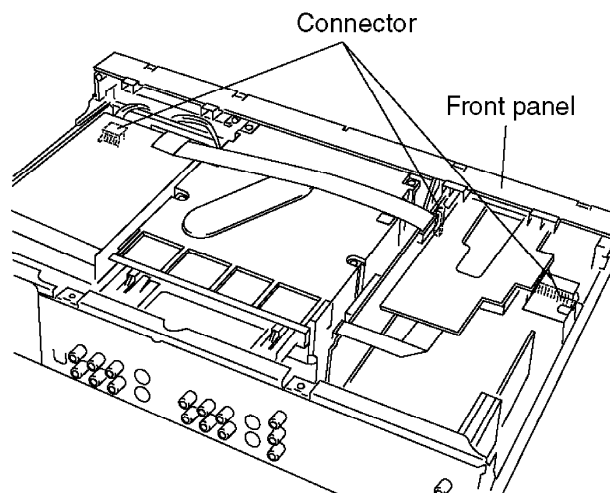
1. Remove the 7 screws.

2. Open the both ends at the front side of the Top cover a bit and lift the Top cover in the direction of the arrows.



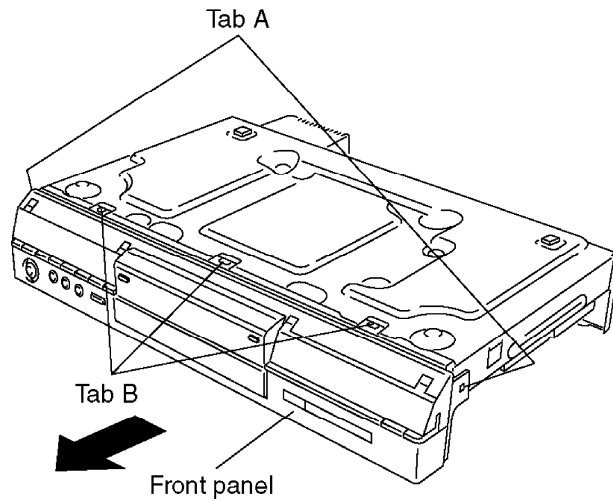
9.4. The Front panel

1. Remove the 3 connectors.



2. Remove at the same time 2 tab A and 3 tab B.

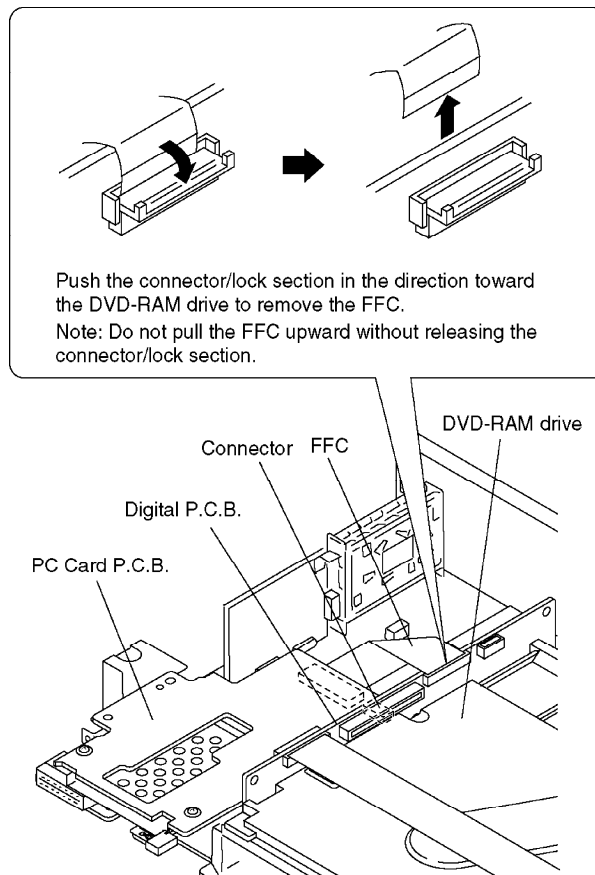
3. Move the front panel to your side slowly and remove it.



9.5. The PC Card P.C.B.

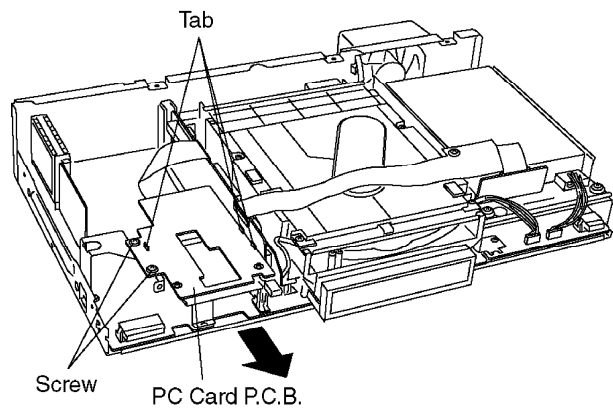
1. Remove the FFC.

2. Remove the connector.



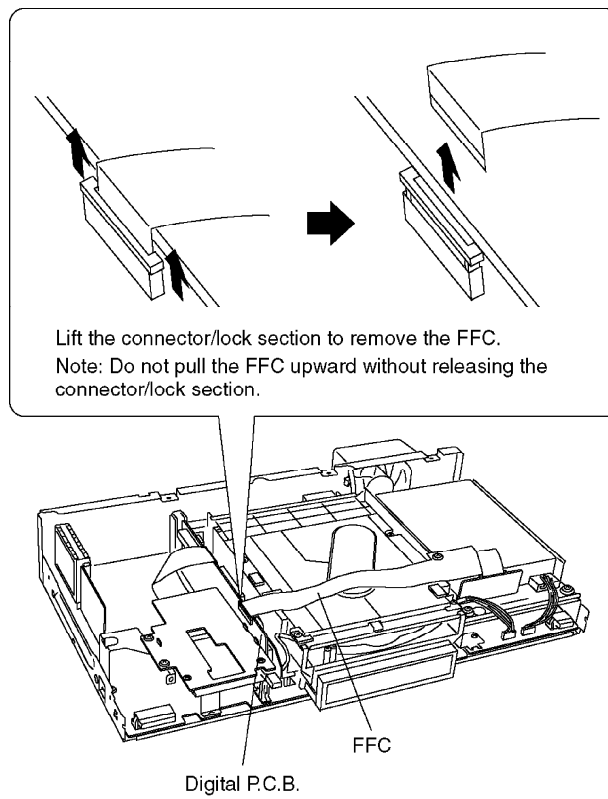
3. Remove the 2 screws.

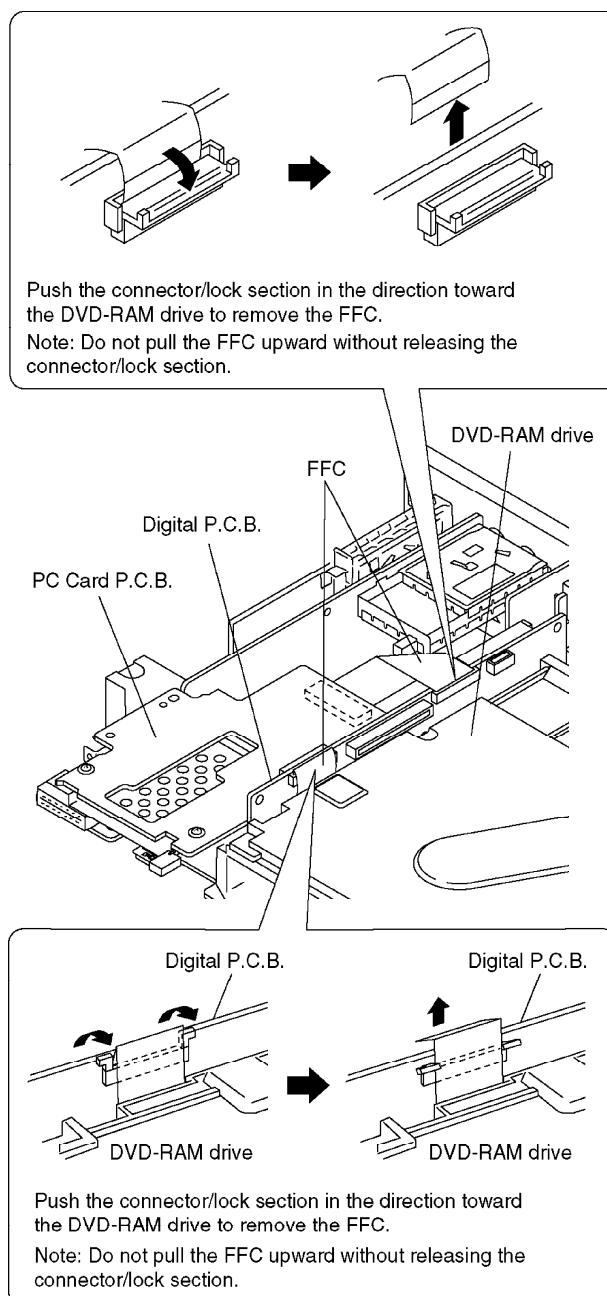
4. It makes the PC Card P.C.B. move to the direction of the arrow and it removes it from the 3 tabs.



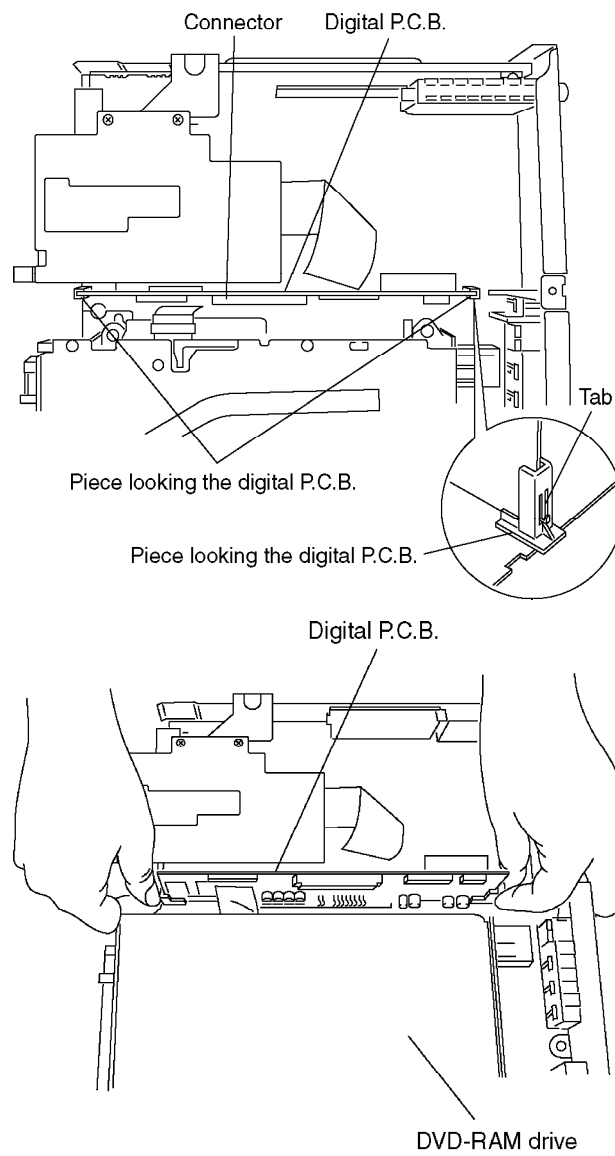
9.6. The Digital P.C.B.

1. Remove the 3 FFCs.

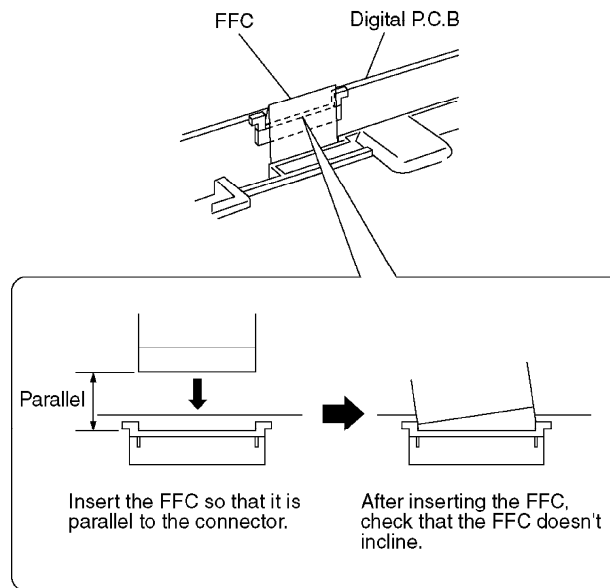




2. Open the tabs for the pieces locking the Digital P.C.B. and slowly lift the Digital P.C.B. in the vertical direction to remove the connector.

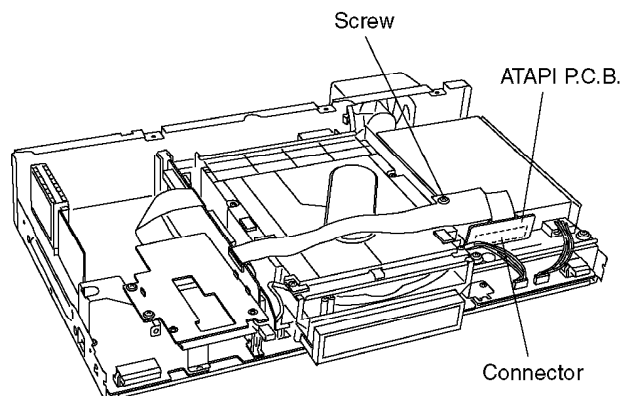


CAUTION:
When replacing Digital P.C.B., pay attention as below.

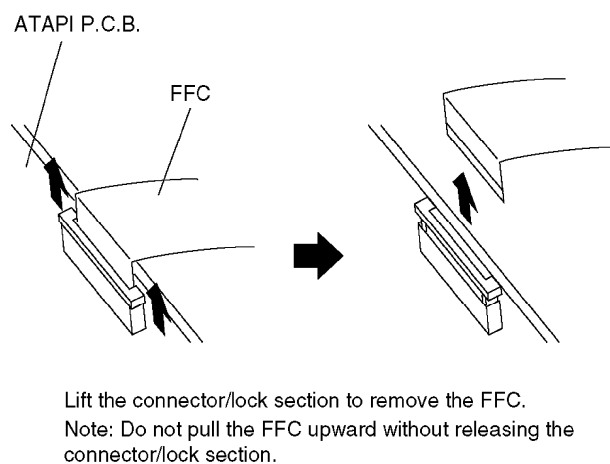


9.7. The ATAPI P.C.B.

1. Remove the screw.
2. Remove the connector.



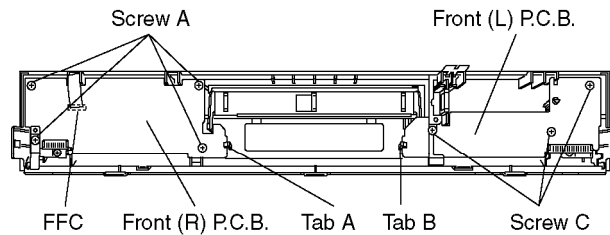
3. Remove the FFC.



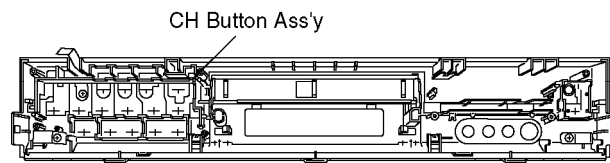
9.8. The Front (L)/(R) P.C.B., Stick P.C.B. and DV Jack P.C.B.

1. Remove the FFC.

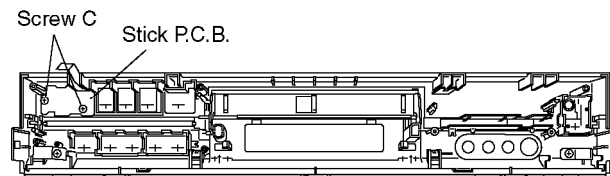
2. Remove the 4 screws A, tab A and the Front (R) P.C.B. in this order.



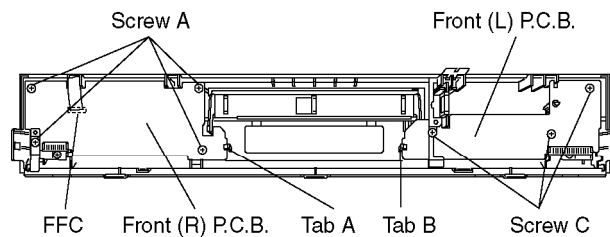
3. Remove the CH Button Ass'y.



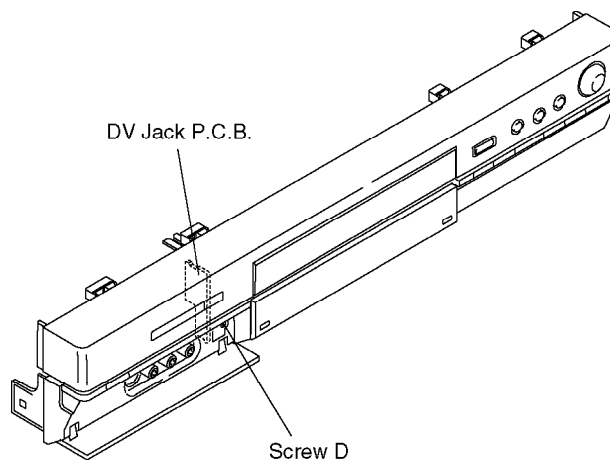
4. Remove the 2 screws B and the Stick P.C.B. in this order.



5. Remove the 3 screws C, tab B and the Front (L) P.C.B. in this order.



6. Remove the screw D and the DV Jack P.C.B. in this order.

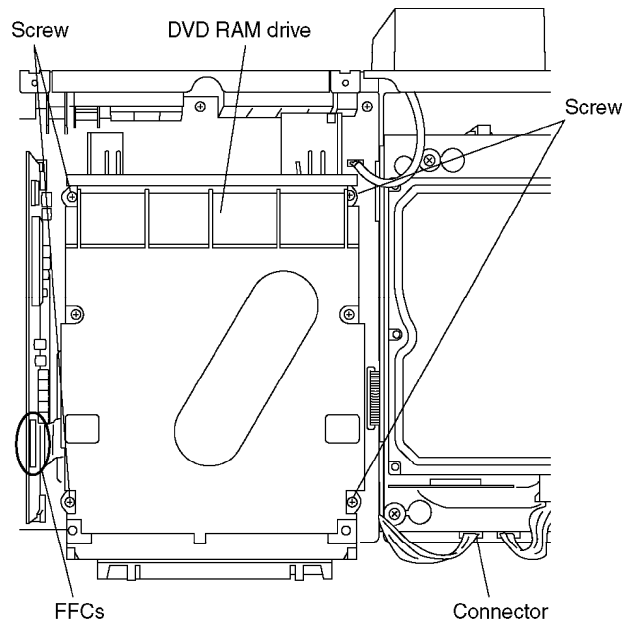


9.9. The DVD-RAM drive

1. Remove the 2 FFCs. (Refer to 9.6.)

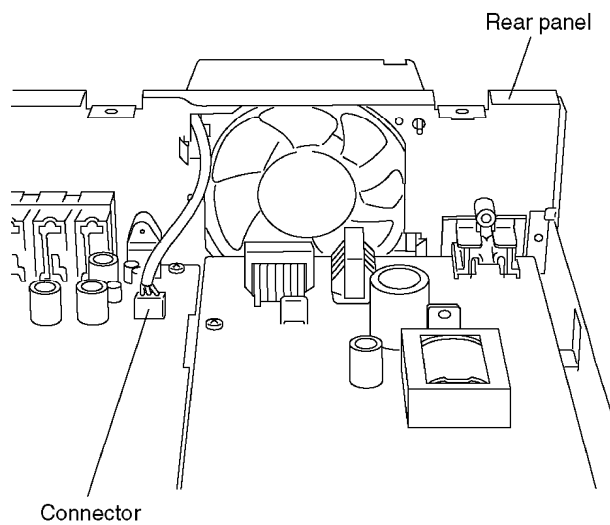
2. Remove the connector.

3. Remove the 4 screws.



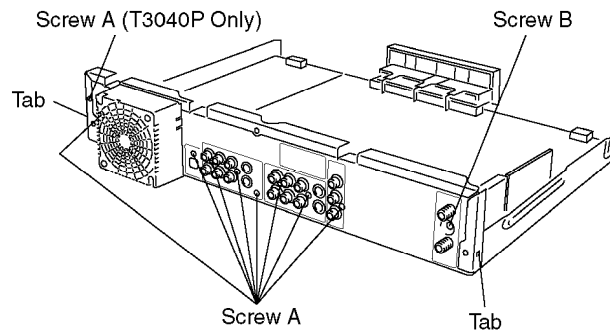
9.10. The Rear panel

1. Remove the connector.



2. Remove the (*) screws A and 1 screw B.

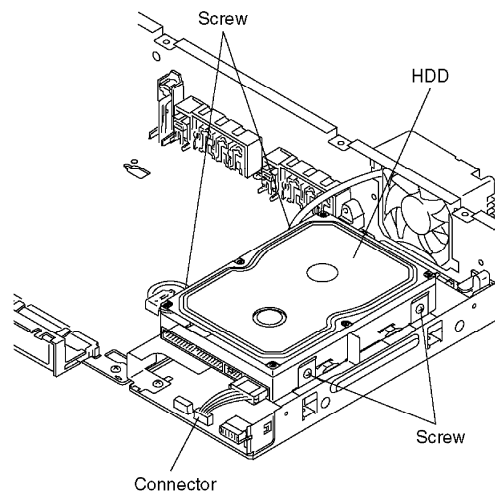
3. Remove the tabs.



(*) ... 8 (H2SPP), 9 (T3040P)

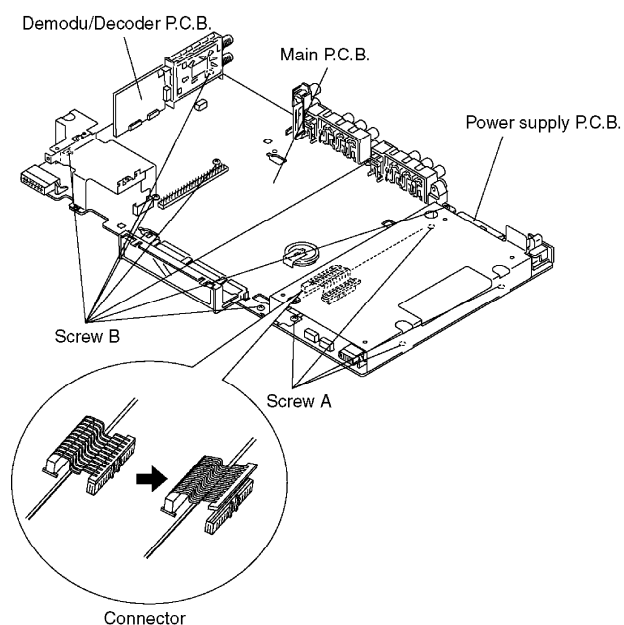
9.11. The HDD

- 1. Remove the connector.**
- 2. Remove the 4 screws.**



9.12. The Power supply P.C.B., Main P.C.B. and Demodu/Decoder P.C.B.

- 1. Remove the 4 screws A.**
- 2. Remove the connector.**
- 3. Remove the Power supply P.C.B.**
- 4. Remove the 7 screws B.**
- 5. Remove the Main P.C.B.**



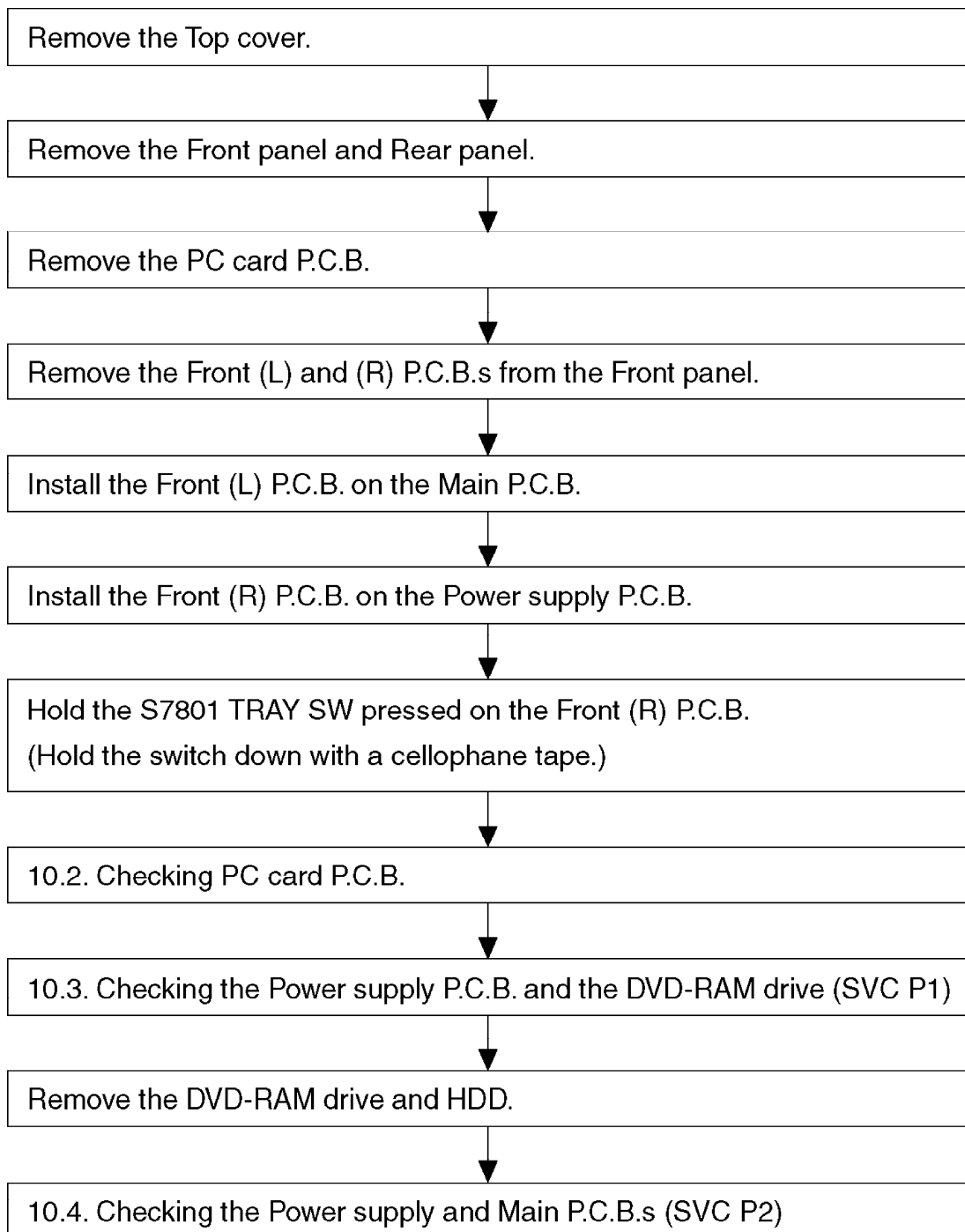
10. Service Positions and Tools

10.1. Checking procedure

Follow the flowchart below and inspect the DVD recorder.

Note:

For the disassembling procedure, see the section 9.



10.2. Checking PC card P.C.B.

1. Check the operations in service mode.

Note:

See Section 11 for the details.

2. If any abnormality is found, proceed with the next step.

10.3. Checking the Power supply P.C.B. and the DVD-RAM drive

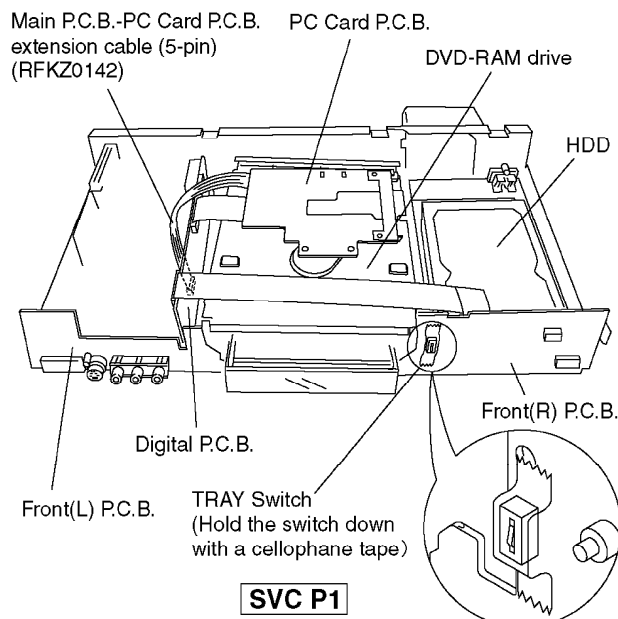
1. Remove the PS104 connector.
2. Use the extension cable (RFKZ0126) to connect the DVD-RAM drive and the Power supply P.C.B.
3. Check the voltage supplied to PC card P.C.B. and UART P.C.B. If any abnormality is found, proceed with SVC P2 in 10.4.
4. Measure each terminal of the PS102/PP9902 connector.

PS102/PP9902 Connector Reference Voltage.

PIN. NO.	Voltage
1	+15.5V
2	+5.9V
3	+5.9V
4	+5.0V
6	+5.0V
8	+12.0V
10	+3.3V
12	+1.8V
13	+1.8V

5. If any failure is found, go to SVC P2 in section 10.4.

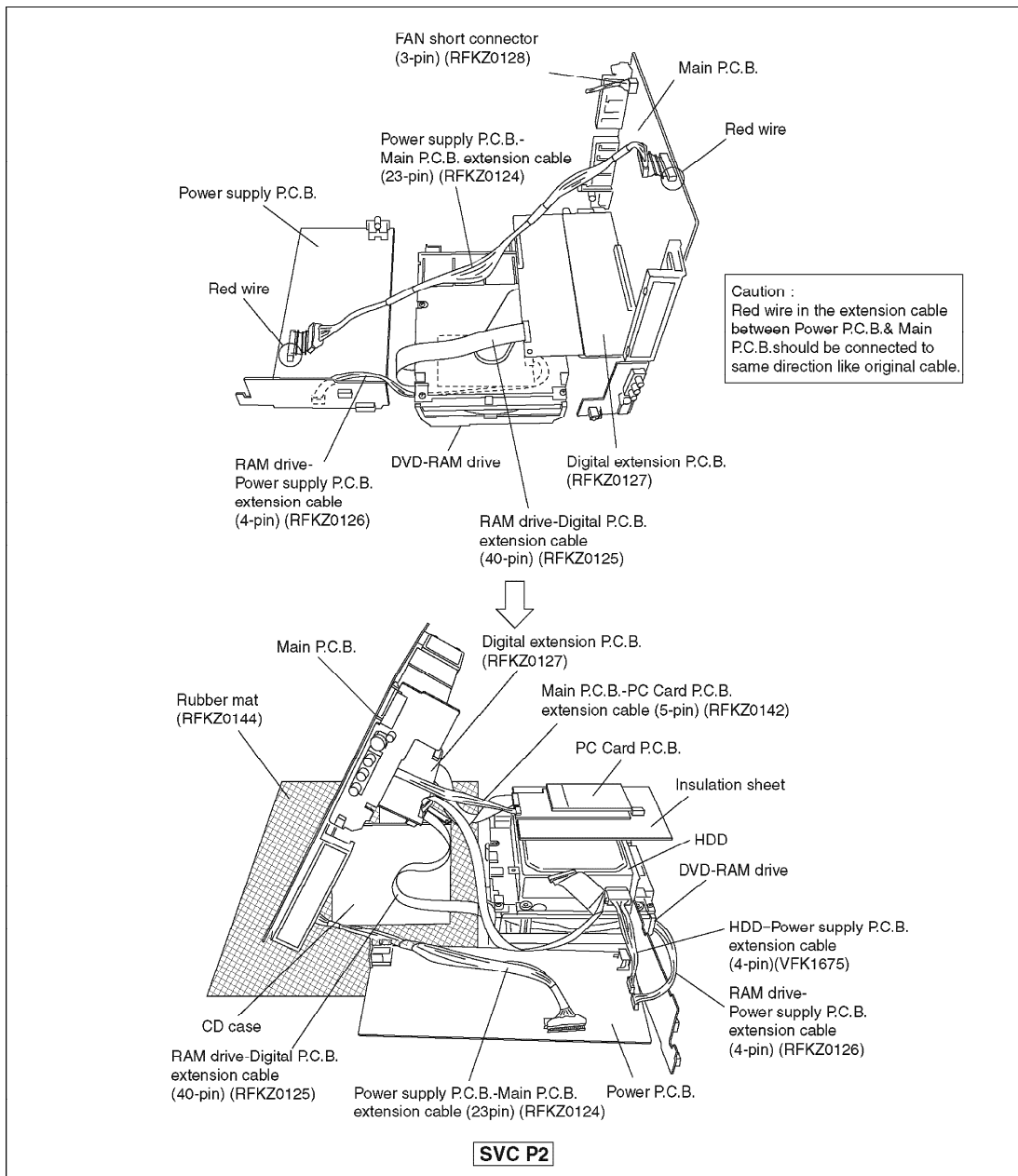
Service tools	
RAM drive-Power supply P.C.B. extension cable	RFKZ0126 (4-pin)
Main P.C.B.-PC Card P.C.B. extension cable	RFKZ0142 (5-pin)



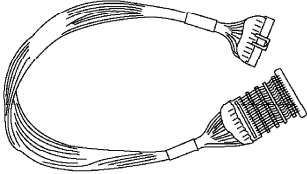
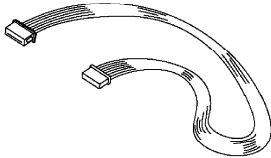
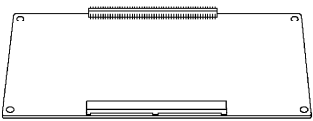
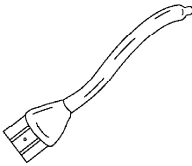
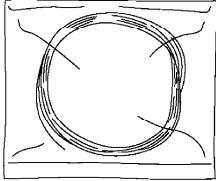
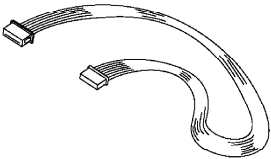
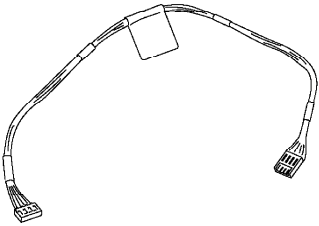
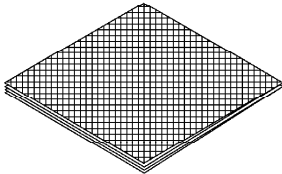
10.4. Checking the Power supply and Main P.C.B.s

1. Use the extension cable (RFKZ0124) to connect the Main P.C.B. (PP9902) and the Power supply P.C.B. (PS102).
2. Use the extension cable (RFKZ0126) to connect the DVD-RAM drive (PP9902) and the Power supply P.C.B. (PS104).
3. Use the extension cable (RFKZ0125) to connect the DVD-RAM drive and the Digital P.C.B. (P3401).
4. Insert the FAN short connector (RFKZ0128) into the connector (P7503) on the Main P.C.B.
5. Insert the extension cable between Main P.C.B. and PC card P.C.B. to the connector (P9901) of the Main P.C.B.
6. Connect HDD and PC card P.C.B. Follow SVC P2 for installation.

Service tools	
Power supply P.C.B.-Main P.C.B. extension cable	RFKZ0124(23-pin)
RAM drive-Digital P.C.B. extension cable	RFKZ0125(40-pin)
RAM drive-Power supply P.C.B. extension cable	RFKZ0126(4-pin)
Digital extension P.C.B.	RFKZ0127
FAN short connector	RFKZ0128(3-pin)
Main P.C.B.-PC Card P.C.B. extension cable	RFKZ0142(5-pin)
Rubber mat	RFKZ0144
HDD-Power supply P.C.B. extension cable	VFK1675 (4-pin)



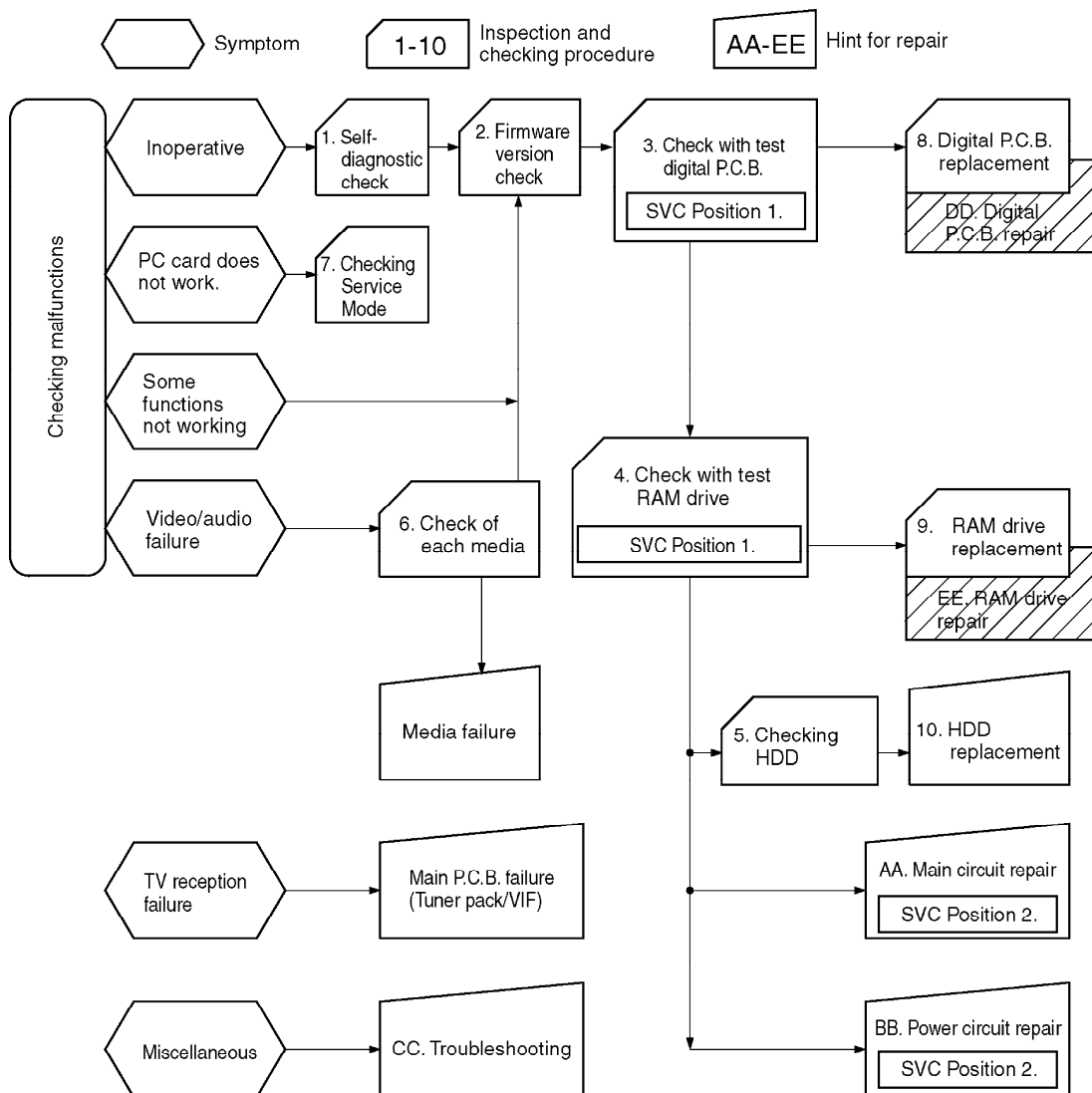
10.5. Service tools

Power supply P.C.B. - Main P.C.B. extension cable (23-pin)  RFKZ0124	RAM drive- Digital P.C.B. extension cable (40-pin)  RFKZ0125	RAM drive- Power supply P.C.B. extension cable (4-pin)  RFKZ0126
Digital extension P.C.B.  RFKZ0127	FAN short connector (3-pin)  RFKZ0128	Eject pin  JZS0484
Pb free solder  VUA7090A03E (0.3 mm × 3 m) VUA7090A06E (0.6 mm × 3 m)	Main P.C.B. - PC Card P.C.B. extension cable (5-pin)  RFKZ0142	HDD - Power supply P.C.B. extension cable (4-pin)  VFKZ1675
Rubber mat  RFKZ0144		

11. Repair and checking procedures

11.1. Flow chart

See 11.2 for details of inspection and checking procedures 1 to 10 appearing in the chart below.
See 11.3 for details of hints for repairs AA to EE appearing in the chart below.



Note 1 : After the display is shifted to the SVC mode and the mode is closed, the timer display might show 「— — : — —」.

In such a case, carry out the following operation to have the normal timer display indicated.

Set the items of the "installation" of the "initial setting" and the "auto clock channel" of the "time setting" to auto.

Note 2 : When pressing the keys simultaneously, hold them for 5 to 10 seconds.

11.2. Inspection and checking procedures

1. Checking self-diagnosis function

1. Presence of error code on display (Serviceable on user site)

Display	Cause	Countermeasure	Judgment
U11	Stained or damaged disc / Incompatible disc	Load another disc.	<NG> Drive failure, or digital P.C.B. (RTSC circuit) failure <OK> Disc failure
U12	Remote control and main unit code are not matched.	Switch the setting by "remote control mode" in initial setting.	
U14	Inner temperature is abnormally high.	The unit cannot be operated for approx. 30 minutes. Normal operation is restored when temperature comes down.	a. Check whether cooling fan is blocked or not. b. Room temperature is abnormally high
U99	System stack	Turn off main unit power, and then turn it on again. If there is no change, keep pressing the power switch for 10 seconds.	

2. Checking other error codes

<Procedure>

A. Enter the service mode.

- While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.

B. View the error code.

- Set [DVD/TV] switch on remote control to DVD.
- Press the channel key [0] [1] on remote control. (Error code is kept displayed until pressing any key.)

C. Meanings

Display	Cause	Countermeasure	Judgment
H01	Stationary fan motor	Power check Mother P.C.B. check	----
F00	No error information (Initial setting)	---	No error could be detected with self-diagnosis function.
F01	Drive hardware error	Replacement of drive unit	
F12	Communication error between timer processor (main P.C.B.) and main processor (digital P.C.B.)	Go to the inspection and checking procedure 3.	

D. Exit the service mode.

- Turn off the power with remote control power switch.

2. Checking firmware version

- 1. Firmware is subject to regular updating for performance enhancement.**
Check if the symptom at user can be solved with firmware updating. If yes, update the firmware.

<Firmware version check procedure>

A. Enter the service mode.

- While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously. "SERVICE MODE" will be displayed on FIP.

B. Check firmware version on FL display.

- Set [DVD/TV] switch on remote controller to DVD.
- Press the channel key [0] [2] on remote controller. (If you want the display reappear, press the key [5] again.)

FL display	Countermeasure
Region 1	Unable to modify
MAIN xxx	Modify with updating disc if necessary.
TIMER xxx	Unable to modify (IC must be replaced to make modification.)
DRIVE xxx	Modify with updating disc if necessary.

*** Firmware is automatically updated when CD-R firmware disc is loaded.**

3. Digital P.C.B. check

- 1. If operation becomes normal after replacement with test P.C.B., it means digital P.C.B. failure.**
- 2. If operation does not become normal after replacement with test P.C.B., follow the next step.**

4. RAM Drive unit check

- 1. If operation becomes normal after replacement with test RAM drive unit, it means drive unit failure.**
- 2. If operation does not become normal after replacement, it means mother P.C.B. failure.**

5. Checking HDD

- 1. Replace the test HDD unit. If the operation becomes normal, HDD is defective.**
- 2. If the operation is not normal even after replacement of the test HDD, Power supply P.C.B. is defective.**

6. Check of each media

- 1. Play DVD video.**
- 2. Record/play of RAM disc from TV channel and L1 input**
- 3. Play music CD.**

7. Checking service mode (with PC card)

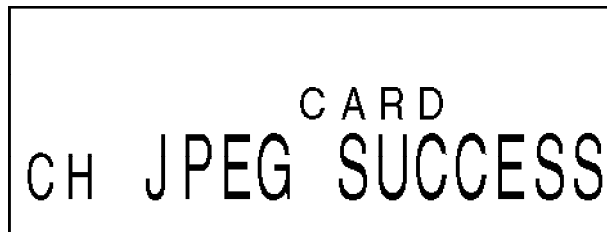
READ test

- 1. While the power is off, insert the PC card containing the image into the card slot.**
- 2. Enter the service mode.**
[Service mode: While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]

3. By pressing [7] and [2] keys, the image appears on the monitor screen.
4. If the image does not appear, check the supplied voltage and PC card P.C.B.

WRITE test

1. While the power is off, insert the PC card containing the image into the card slot.
2. Enter the service mode.
[Service mode: While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]
3. By pressing [7] and [1] keys, the following display appears.



4. If the display does not appear, check the supplied voltage and PC card P.C.B.

Caution:

End off WRITE test the image written into the media is deleted.

8. Digital P.C.B. replacement

- a. No adjustment is needed.
- b. Check performance of each media.

9. RAM drive replacement

1. When the unit does not operate normally after replacement with a new RAM drive
 - A. While power is off, press Skip(R), [Pause], [Open/Close] keys simultaneously.
(Digital P.C.B. sends out the region code to RAM drive.)
Display



B. Turn off the power after a few seconds, and then turn it on again to resume normal operation.

Caution: In this case, all settings are initialized.

10. HDD replacement

11.3. Hint for repair

AA. Main circuit repair

1. Separation of video and audio systems

- **Using internal oscillation of video signal (white/magenta signal)**
 1. **Enter the service mode. / [Service mode: While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]**
 2. **Set [DVD/TV] switch on remote controller to DVD.**
 3. **When [1] [1] key is pressed, digital P.C.B. produces white picture and chroma 100% signal output.**
 4. **When [1] [2] key is pressed, digital P.C.B. produces magenta/ chroma 100% signal output.**
- **Using internal oscillation of audio signal**
 1. **Enter the service mode. / [Service mode: While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]**
 - When [4] [8] key is pressed, digital P.C.B. produces 1kHz±0dB (AC3 /5.1ch sine wave) signal.**

2. Separation of REC, PLAY and EE systems

- **Check PLAY system and REC system circuits in EE2 mode.**
(EE2 mode: L1 input signal passes the same circuit as REC system and PLAY system except for RAM drive.)
 1. **Enter the service mode. / [Service mode: While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]**
 2. **Set [DVD/TV] switch on remote controller to DVD.**

3. When the channel key [1] [3] is pressed, the unit enters REC/PLAY system in XP mode.

3. Display tube partly not illuminated

1. Enter the service mode. / [Service mode: While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]
2. Set [DVD/TV] switch on remote controller to DVD, and press the channel key [5] [1].
3. All segment LEDs light up.
4. If all light up, display tube and LED are normal.
5. Turn the power off, or press the channel key [0] [0].

Last procedure

a. Resorting factory setting

When timer memory or digital P.C.B. is replaced, the data in each memory is altered.

In this case, restore the factory setting after repair.

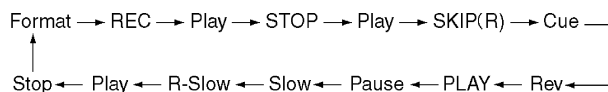
1. Enter the service mode. / [Service mode: While power is off, press [Pause], [Open/Close] and [Stop] keys simultaneously.]
2. Set [DVD/TV] switch on remote controller to DVD, and press the channel key [9] [9].
3. Turn the power off, or press the channel key [0] [0].

b. Aging

After the repair with unstable factors, perform aging.

Use the following service mode for aging.

1. Load on the tray a RAM disc that has at least one program recorded.
2. Set at LP or EP in REC mode.
3. Press [Pause], [Open/Close] and [CH Down] keys simultaneously for about 15 seconds.
4. Sequential operation. (endless)

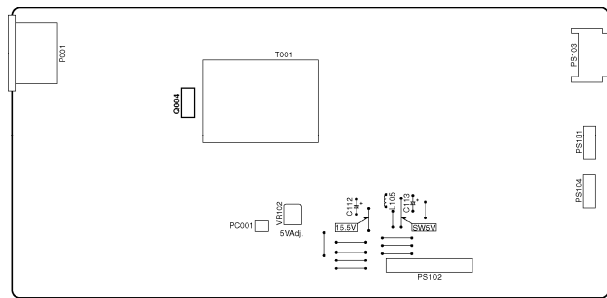


5. Turn off power stop.

BB. Power circuit repair

Adjustment Procedures

1. When the T001, the Q004 or the DI04 is replaced, adjust the "SW 5V measuring point" in the VR102 to the value between 5.12 and 5.15 V. Condition: The BS power supply should be turned on at the initial setting.



CC. Troubleshooting

1. When viewer restriction ID is forgotten.

While the tray is open, press [Skip(R)] and [Skip(L)] keys simultaneously.

2. When shop demo lock remains on.

While the unit is in stop, press [Stop] and [Power] keys simultaneously.

3. In the case of deck stack.

Keep pressing the power switch for about 10 seconds.

DD. Digital P.C.B. repair

1. Refer to operation instruction for Serial card.

EE. RAM drive repair

1. Refer to service manual for VXY1748.

11.4. Special modes at a glance

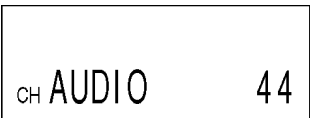
(1) Mode list

To reset the all items to the initial condition in the service mode, press the return key.

Item			FL display	Key operation	
Mode	Mode name	Description		Main unit Key	Remote controller k
Service mode	1. Service mode	The mode is used in servicing.	CH SERVICE MODE	[PAUSE] + [OPEN/CLOSE] + [STOP] while power is off	—
	2. Clear item	Items 1-20 are cleared.	CH SERVICE MODE	—	[0] [0] while in service mode
	3. Error code display	FL display of the last error code held by timer	F00 FL display of the error code (U/H/F)	—	[0] [1] while in service mode
	4. Error code initialization	Initialization of the last error code held by timer (Write in F00)	CH ERROR INIT	—	[9] [8] while in service mode
	5. Main unit initialization	All parameters (including timer) are initiaized to the factory setting.	CH FACT INIT	—	[9] [9] while in service mode
	6. ROM version display	Region code, main, timer and drive firmware versions are displayed on screen and FL tube.	CH REGION* CH MAIN ***** CH TIMER ***** CH DRIVE **** * Version display	—	[0] [2] while in service mode
	7. Illumination of all FL/LEDs	All FL and LEDs are lit up.	Illumination of all FL/LED's	—	[5] [1] while in service mode

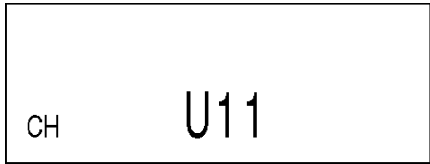
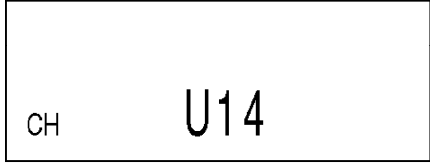
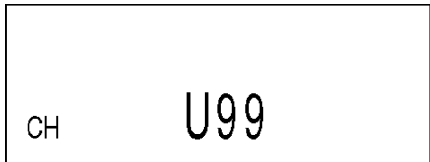
Item			FL display	Key operation	
Mode	Mode name	Description		Main unit Key	Remote controller k
Service mode	8. RTSC return XP (A&V)	Disc recording of L1 input Encoded and decoded for external output without playback. REC mode is XP.	Initialization mode (EE2/ Interlace/ XP/ Audio 48kHz)	—	[1] [3] while in service mode
			CH EE2 I XP 48		
			Progressive/ Interlace switched.	—	[1] [4] while in RTSC return XP mode *I ← → P Toggle switched.
			CH EE2 P XP 48		
	9. Audio Mute (XTMUTE)	To check if XTMUTE (mute from timer) works normally	Audio 44.1kHz/ 48kHz switch	—	[2] [4] while in RTSC return XP mode *48k ← → 44.1k Toggle switched.
			CH EE2 I XP 44		
	10. Audio Mute (XDMUTE)	XDMUTE To check if XDMUTE (mute from main) works normally	CH MAIN MUTE	—	[2] [2] while in service mode
	11. S1 signal output	Forced overlapping of S1 signal on EE in order to check S terminal output	CH S1 OUTPUT	—	[5] [2] while in service mode
	12. S2 signal output	Forced overlapping of S2 signal on EE in order to check S terminal output	CH S2 OUTPUT	—	[5] [3] while in service mode
	13. Laser use time display	To check laser use time of drive	CH LASER Time	—	[4] [1] while in service mode
	14. White	White picture	Initialization mode	—	[11] [11] while

	14. White picture output	White picture output from AV decoder White picture (Chroma: 100%) Switching enabled by subcommand "I/P switch"	Initialization mode (Interlace)	—	[1] [1] while in service mode
			CH WHIT I	—	[1] [4] while in white picture mode *I ← → P Toggle switched.

Item			FL display	Key operation	
Mode	Mode name	Description		Main unit Key	Remote controller k
Service mode	15. Magenta picture output	Magenta picture output from AV decoder Magenta picture (Chroma: 100%) Switching enabled by subcommand "I/P switch"	Initialization mode (Interlace)	—	[1] [2] while in service mode
					
	16. Audio pattern output	Audio pattern output of internal memory 1KHz ± 0dB (AC3 5.1ch sine wave)	Progressive/ Interlace switched	—	[1] [4] while in Magenta picture mode *I ← → P Toggle switched.
					
	17. I/P switching	"Interlace" and "Progressive" are switched. Initial setting is "Interlace". (This command is effective when performing 14 and 15.)	Initialization (Audio 48kHz)	—	[2] [3] while in service mode
					
Service mode	16. Audio pattern output	Audio pattern output of internal memory 1KHz ± 0dB (AC3 5.1ch sine wave)	Audio 44.1kHz/ 48kHz switched	—	[2] [4] while in Audio pattern output mode *48k ← → 44k Toggle switched.
					
	17. I/P switching	"Interlace" and "Progressive" are switched. Initial setting is "Interlace". (This command is effective when performing 14 and 15.)	Initialization mode	—	[1] [4] while in service mode *I ← → P Toggle switched.
					
	18. FACTORY MODE1	Region setting is done for the drive at its replacement by starting up the process mode 1. Turn the power off (POWER key on main unit or remote controller) to end the FACT	Progressive		
					
Service mode	18. FACTORY MODE1	Region setting is done for the drive at its replacement by starting up the process mode 1. Turn the power off (POWER key on main unit or remote controller) to end the FACT		[SKIP(R)] + [PAUSE] + [OPEN/CLOSE] while power is off	—

	end the FACTI MODE1.			
19. PC card READ check	Check READ function using the media with image and PC card.	CARD CH JPEG TEST * Image in the media appears.	—	Insert PC card, and press [7] and [2] keys in the service mode.
20. PC card WRITE check	Check WRITE function using the media and PC card.	CARD CH CARD SUCCESS Caution: The image written into the media is deleted.	—	Insert PC card, and press [7] and [1] keys in the service mode.
21. Tray OPEN/CLOSE	The RAM drive tray is opened and closed repeatedly.	CYCLE CH CYCLE **** * FL display of the CYCLE count out.	—	[9] [1] while in service mode * AC power should be turned off to release this operation.
22. RAM drive last error	Error codes for the RAM drive are displayed.	00000000 0000 CH 00000000 0000	—	[4] [2] while in service mode

(2) U/H/F display

Display	Diagnosis	Description	FL display	Screen display
U11	Media error	Display appears: a. When stained or damaged disc is detected b. When authentication process error is returned in FS and RTSC c. When incompatible disc is detected	 CH U11 a. Displayed for 5 seconds unless the unit is in TIMER REC mode b. Display continues when the unit is in TIMER REC mode (until user presses power and open/close key)	-----
		Display appears when broken disc information is detected.	 CH U11 a. After displaying above for 5 seconds, power is turned off. b. When power is turned on next time, U11 is displayed for 5 seconds after READ display.	-----
1 CHK REMOTE	Remote control mode error	Display appears when main unit and remote controller modes are not matched.	 CH CHK REMOTE	-----
U14	Abnormal inner temperature detected	Display appears when the drive temperature exceeds 71°C. Main unit is powered off forcibly. For 30 minutes after this, all key entries are disabled. (Fan motor operates at the highest speed for the first 5 minutes. For the remaining 25 minutes, fan motor is also stopped.) The event is saved in memory as well.	 CH U14 Displayed from the time of detection and while key entries are disabled after power-off (30 minutes).	-----
U99	Hang-up	Displayed when microprocessor has hang-up.	 CH U99 Remains displayed.	-----

Display	Diagnosis	Description	FL display	Screen display
H01	Inoperative fan motor	Display appears when inoperative fan motor is detected after powered on.	H01 Remains displayed.	-----
F00	No error information	Initial setting for error code in memory (Initialization is possible with error code initialization and main unit initialization.)	F00 Remains displayed.	-----
F01	Drive hardware error	Display appears when drive unit error is detected. The event is saved in memory.	F01 Remains displayed.	-----
F12	Initialization error when main microprocessor is started up for program recording	Display appears when initialization error is detected after starting up main microprocessor for program recording. The event is saved in memory.	F12 Remains displayed.	-----

12. Abbreviations

INITIAL/LOGO		ABBREVIATIONS
E	EC	ERROR TORQUE CONTROL
	ECR	ERROR TORQUE CONTROL REFERENCE
	ENCSEL	ENCODER SELECT
	ETMCLK	EXTERNAL M CLOCK (81MHz/40.5MHz)
	ETSCLK	EXTERNAL S CLOCK (54MHz)
F	FBAL	FOCUS BALANCE
	FCLK	FRAME CLOCK
	FE	FOCUS ERROR
	FFI	FOCUS ERROR AMP
	FEO	INVERTED INPUT
	FG	FOCUS ERROR AMP OUTPUT
	FSC	FREQUENCY GENERATOR
	FSCK	FREQUENCY SUB CARRIER FS (384 OVER SAMPLING) CLOCK
G	GND	COMMON GROUNDING (EARTH)
H	HA0~UP	HOST ADDRESS
	HD0~UP	HOST DATA
	HINT	HOST INTERRUPT
	HRXW	HOST READ/WRITE
I	IECOUT	IEC958 FORMAT DATA OUTPUT
	IPFRAG	INTERPOLATION FLAG
	IREF	I (CURRENT) REFERENCE
	ISEL	INTERFACE MODE SELECT
L	LDON	LASER DIODE CONTROL
	LPC	LASER POWER CONTROL
	LRCK	L CH/R CH DISTINCTION CLOCK
M	MA0~UP	MEMORY ADDRESS
	MCK	MEMORY CLOCK
	MCKI	MEMORY CLOCK INPUT
	MCLK	MEMORY SERIAL COMMAND CLOCK
	MDATA	MEMORY SERIAL COMMAND DATA
	MDQ0~UP	MEMORY SERIAL COMMAND DATA
	MDQM	MEMORY DATA INPUT/OUTPUT
	MLD	MEMORY DATA I/O MASK
	MPEG	MEMORYSERIAL COMMAND LOAD
		MOVING PICTURE EXPERTS GROUP
INITIAL/LOGO		ABBREVIATIONS
O	ODC	OPTICAL DISC CONTROLLER
	OFTR	OFF TRACKING
	OSCI	OSCILLATOR INPUT
	OSCO	OSCILLATOR OUTPUT
	OSD	ON SCREEN DISPLAY
P	P1~UP	PORT
	PCD	CD TRACKING PHASE DIFFERENCE
	PCK	PLL CLOCK
	PDVD	DVD TRACKING PHASE DIFFERENCE
	PEAK	CAP. FOR PEAK HOLD
	PLLCLK / PLLOK	CHANNEL PLL CLOCK
	PWMCTL	PLL LOCK
	PWMDA	PWM OUTPUT CONTROL
	PWMOA, B	PULSE WAVE MOTOR DRIVEA
		PULSE WAVE MOTOR OUT A, B

INITIAL/LOGO		ABBREVIATIONS
R	RE	READ ENABLE
	RFENV	RF ENVELOPE
	RFO	RF PHASE DIFFERENCE
	RS	OUTPUT
	RSEL	(CD-ROM) REGISTER SELECT
	RST	RF POLARITY SELECT
	RSV	RESET
S		RESERVE
	SBI0, 1	SERIAL DATA INPUT
	SBO0	SERIAL DATA OUTPUT
	SBT0, 1	SERIAL CLOCK
	SCK	SERIAL DATA CLOCK
	SCKR	AUDIO SERIAL CLOCK
	SCL	RECEIVER
	SCLK	SERIAL CLOCK
	SDA	SERIAL CLOCK
	SEG0~UP	SERIAL DATA
	SELCLK	FL SEGMENT OUTPUT
	SEN	SELECTCLOCK
	SIN1, 2	SERIAL PORT ENABLE
	SOUT1, 2	SERIAL DATA IN
	SPDI	SERIAL DATA OUT
	SPDO	SERIAL PORT DATA INPUT
	SPEN	SERIAL PORT DATA OUTPUT
	SPRCLK	SERIAL PORT R/W ENABLE
	SPWCLK	SERIAL PORT READ CLOCK
	SQCK	SERIAL PORT WRITE CLOCK
	SQCX	SUB CODE Q CLOCK
	SRDATA	SUBCODE Q DATA READ
	SRMADR	CLOCK
	SRMDT0~7	SERIAL DATA
		SRAM ADDRESS BUS
	SS	SRAM DATA BUS 0~7
	STAT	START/STOP
	STCLK	STATUS
	STD0~UP	STREAM DATA CLOCK
	STENABLE	STREAM DATA
		STREAM DATA INPUT ENABLE
	STSEL	STREAM DATA POLARITY
	STVALID	SELECT
	SUBC	STREAM DATAVALIDITY
	SBCK	SUB CODE SERIAL
	SUBQ	SUB CODE CLOCK
	SYSCLK	SUB CODE Q DATA
		SYSTEM CLOCK
INITIAL/LOGO		ABBREVIATIONS
T	TE	TRACKING ERROR
	TIBAL	BALANCE CONTROL
	TID	BALANCE OUTPUT 1
	TIN	BALANCE INPUT
	TIP	BALANCE INPUT
	TIS	BALANCE OUTPUT 2
	TPSN	OP AMP INPUT
	TPSO	OP AMP OUTPUT
	TPSP	OP AMP INVERTED INPUT
	TRCRS	TRACK CROSSIGNAL
	TRON	TRACKING ON
	TRSON	TRAVERSE SERVO ON

INITIAL/LOGO		ABBREVIATIONS
V	VBLANK	V BLANKING
	VCC	COLLECTOR POWER SUPPLY VOLTAGE
	VCDCONT	VIDEO CD CONTROL (TRACKING BALANCE)
	VDD	DRAIN POWER SUPPLY VOLTAGE
	VFB	VIDEO FEED BACK VOLTAGE REFERENCE
	VREF	SOURCE POWER SUPPLYVOLTAGE
	VSS	
W	WAIT	BUS CYCLE WAIT
	WDCK	WORD CLOCK
	WEH	WRITE ENABLE HIGH
	WSR	WORD SELECT RECEIVER
X	X	X' TAL
	XALE	X ADDRESS LATCH ENABLE
	XAREQ	X AUDIO DATA REQUEST
	XCDROM	X CD ROM CHIP SELECT
	XCS	X CHIP SELECT
	XCSYNC	X COMPOSITE SYNC
	XDS	X DATA STROBE
	XHSYNCO	X HORIZONTAL SYNC OUTPUT
	XHINT	XH INTERRUPTREQUEST
	XI	X' TAL OSCILLATOR INPUT
	XINT	X INTERRUPT
	XMW	X MEMORY WRITE ENABLE
	XO	X' TAL OSCILLATOR OUTPUT
	XRE	X READ ENABLE
	XSRMCE	X SRAM CHIP ENABLE
	XSRMOE	X SRAM OUTPUT ENABLE
	XSRMWE	X SRAM WRITE ENABLE
	XVCS	X V-DEC CHIPSELECT
	XVDS	X V-DEC CONTROL BUS STROBE
	XVSYNCO	X VERTICAL SYNC OUTPUT

13. Voltage Chart

13.1. Power Supply P.C.B.

13.2. Main P.C.B.

13.3. Demodu/Decoder P.C.B.

13.4. P9001 Connector

13.5. P9001 Waveform

14. Block Diagram

14.1. Power Supply Block Diagram

14.1.1. Integrated Circuit Power Supply Chart

14.2. Analog Audio/Video Block Diagram

14.3. Analog Timer Block Diagram

14.4. Digital Section Block Diagram

14.4.1. Digital Section Block Diagram (1)

14.4.2. Digital Section Block Diagram (2)

14.4.3. Digital Block IC Pin Terminal Chart (TC1-TC28)

15. Schematic Diagram

15.1. Interconnection Schematic Diagram

15.2. Power Supply Schematic Diagram (Power Supply P.C.B. (1/2))

15.3. Power Supply Schematic Diagram (Power Supply P.C.B. (2/2))

15.4. Main Net Section (Main P.C.B. (1/4)) Schematic Diagram (M)

15.5. Video I/O Section (Main P.C.B. (2/4)) Schematic Diagram (V)

15.6. Audio Main Section (Main P.C.B. (3/4)) Schematic Diagram (A)

15.7. Timer Section (Main P.C.B. (4/4)) Schematic Diagram (T)

15.8. Digital Net Section (Digital P.C.B. (1/7)) Schematic Diagram (DN)

15.9. AV-Encoder Section (Digital P.C.B. (2/7)) Schematic Diagram (EN)

15.10. AV-Decoder Section (Digital P.C.B. (3/7)) Schematic Diagram (AD)

15.11. AV-Input Section (Digital P.C.B. (4/7)) Schematic Diagram (AI)

15.12. System Control Section (Digital P.C.B. (5/7)) Schematic Diagram (S)

15.13. Glue Section (Digital P.C.B. (6/7)) Schematic Diagram (G)

15.14. 1394 D/V Section (Digital P.C.B. (7/7)) Schematic Diagram (DV)

15.15. PC Card Schematic Diagram

15.16. ATAPI Schematic Diagram

15.17. Demodu/Decoder Schematic Diagram

15.18. DV Input Jack Schematic Diagram

15.19. Stick Schematic Diagram

15.20. Front (L) Schematic Diagram

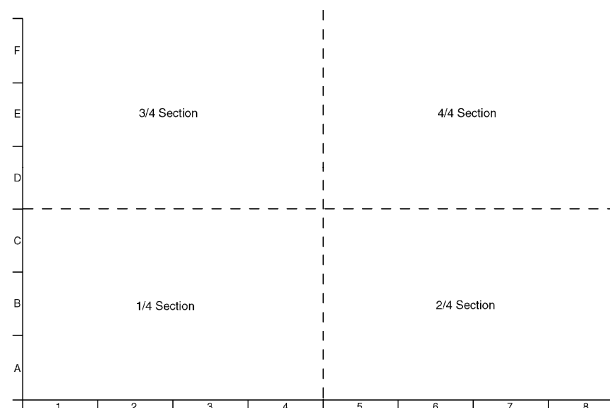
15.21. Front (R) Schematic Diagram

16. Print Circuit Board

16.1. Power Supply P.C.B.

16.2. Main P.C.B. Location Map, Address Information

16.2.1. Main P.C.B. Location Map



16.2.2. Main P.C.B. Address Information

16.3. Main P.C.B.

16.3.1. Main P.C.B. (1/4 Section)

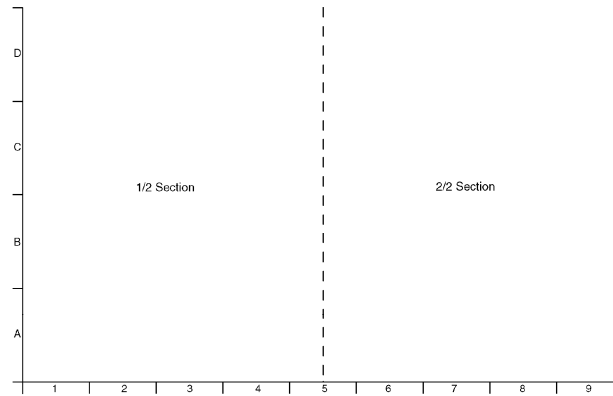
16.3.2. Main P.C.B. (2/4 Section)

16.3.3. Main P.C.B. (3/4 Section)

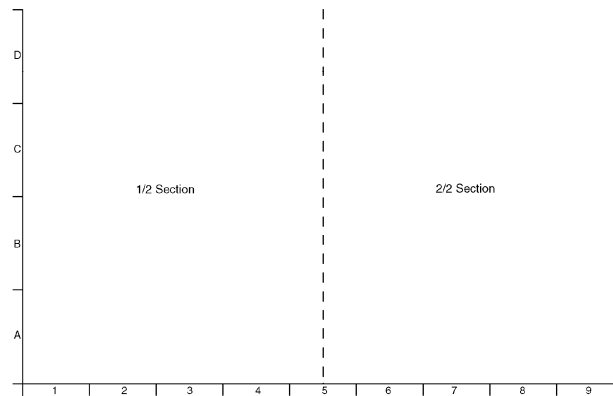
16.3.4. Main P.C.B. (4/4 Section)

16.4. Digital P.C.B. Location Map, Address Information

16.4.1. Digital P.C.B. (Component Side) Location Map



16.4.2. Digital P.C.B. (Foil Side) Location Map



16.4.3. Digital P.C.B. Address Information

16.5. Digital P.C.B. (Component Side)

16.5.1. Digital P.C.B. (Component Side) 1/2 Section

16.5.2. Digital P.C.B. (Component Side) 2/2 Section

16.6. Digital P.C.B. (Foil Side)

16.6.1. Digital P.C.B. (Foil Side) 1/2 Section

16.6.2. Digital P.C.B. (Foil Side) 2/2 Section

16.7. PC Card P.C.B.

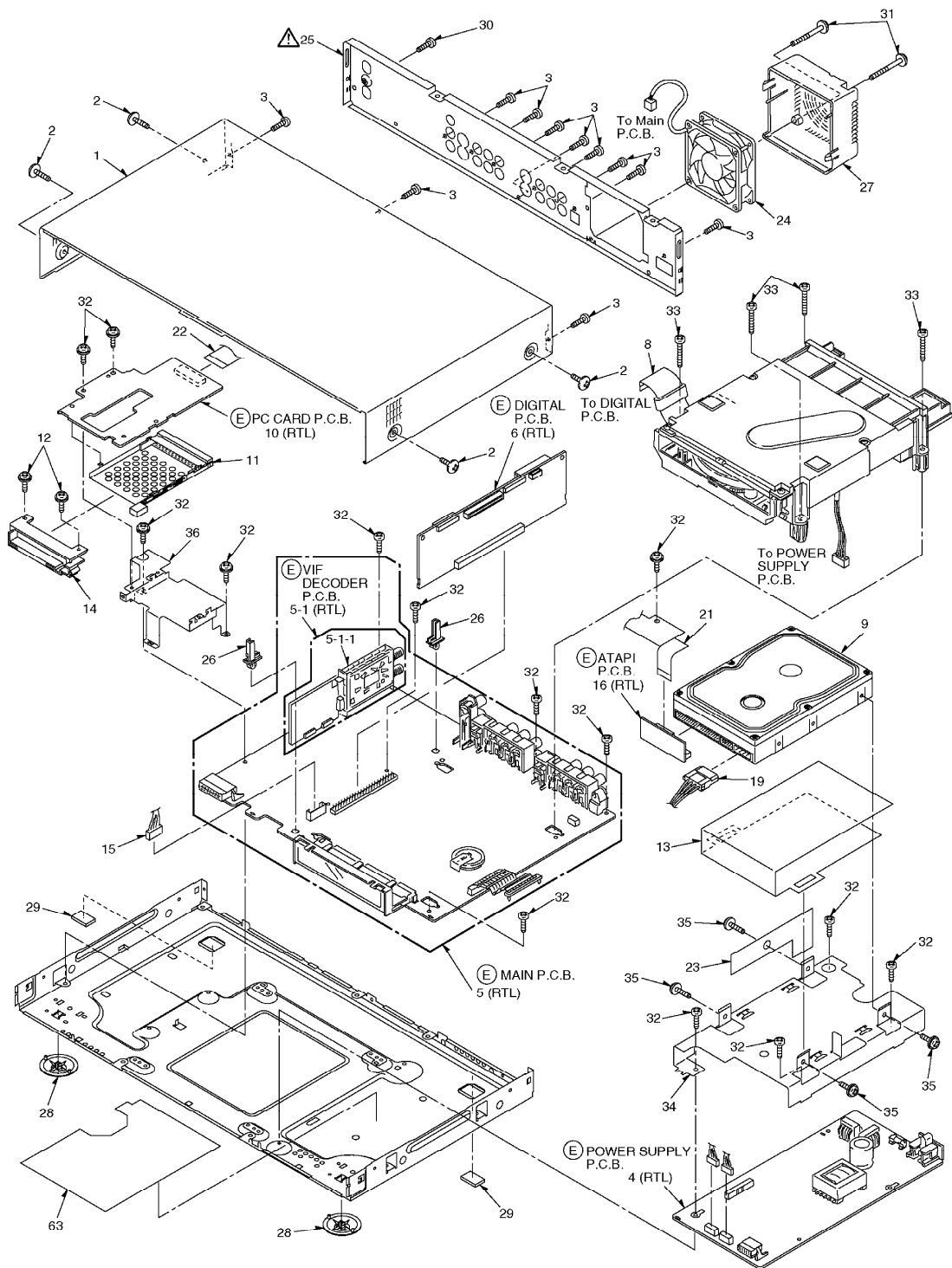
16.8. DV Input Jack P.C.B. And ATA/PI P.C.B.

16.9. Demodu/Decoder P.C.B.

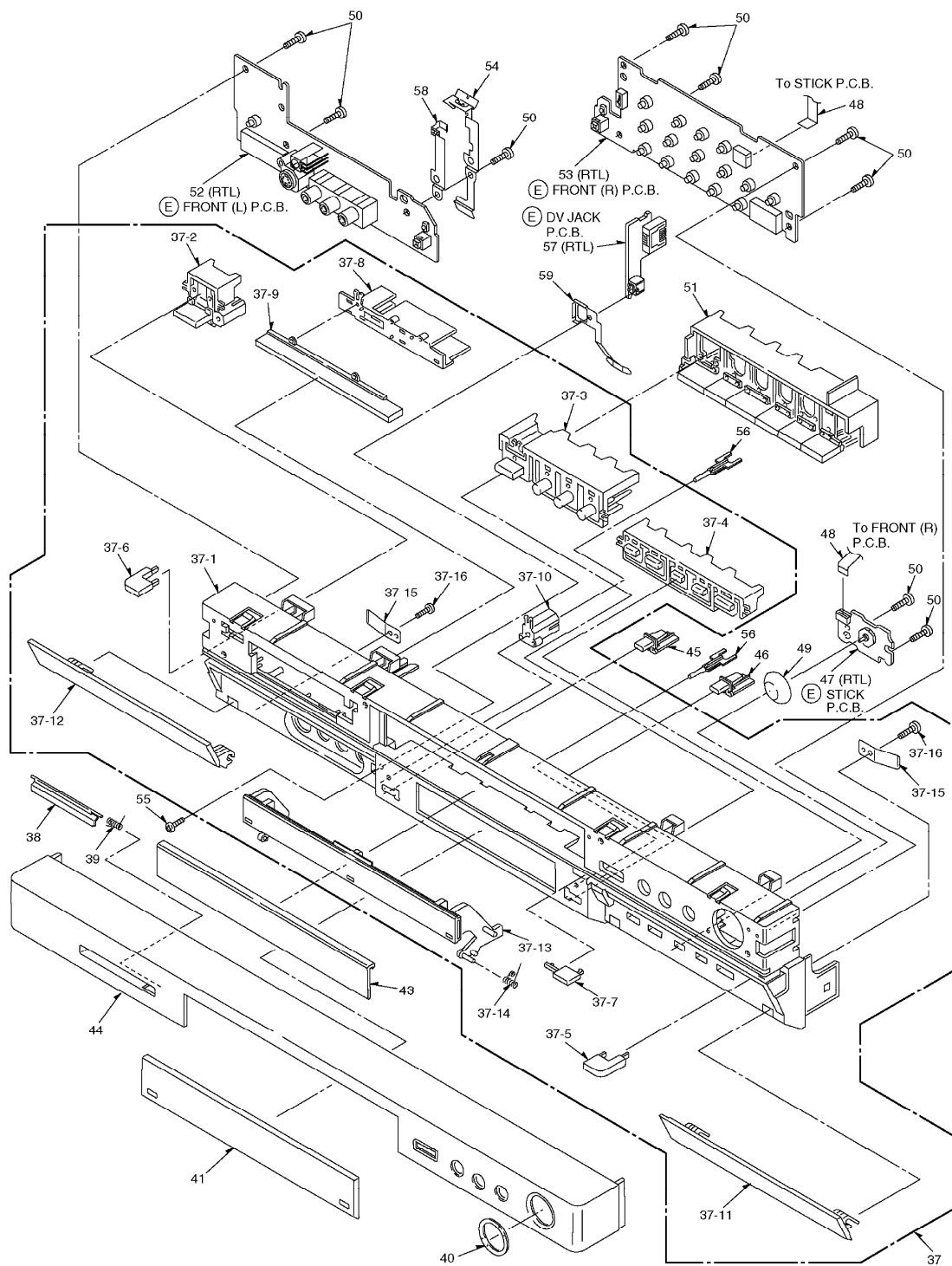
16.10. Front (R) P.C.B., Front (L) P.C.B. And Stick P.C.B.

17. EXPLODED VIEWS

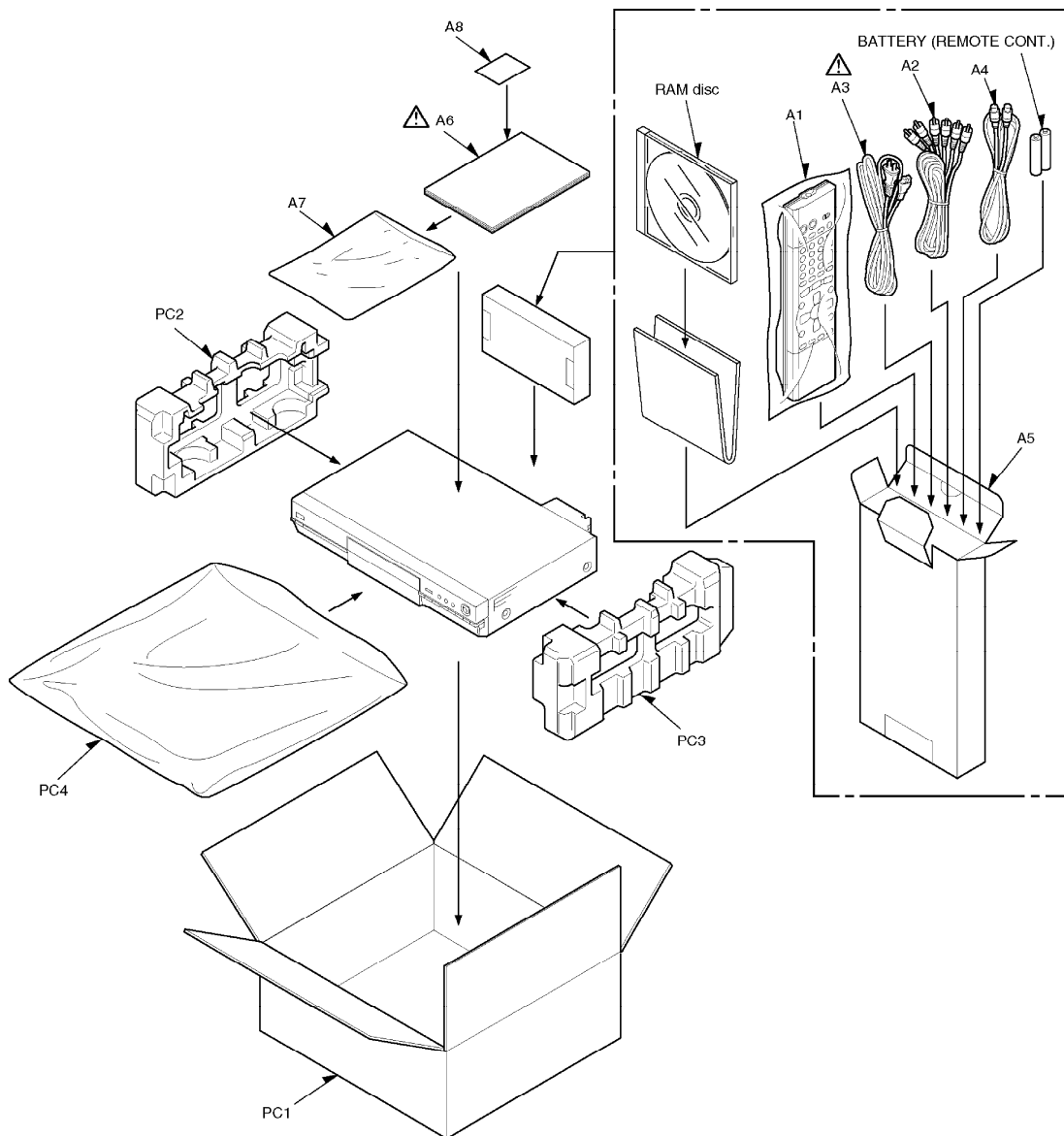
17.1. Casing Parts& Mechanism Section 1 (DMR-HS2PP Only)



17.2. Casing Parts& Mechanism Section 1 (DMR-T3040P Only)



17.4. Packing & Accessories Section



18. REPLACEMENT PARTS LIST

Notes:

*Important safety notice:

Components identified by  mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

*When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.

*Warning: This product uses a laser diode. Refer to caution statements.

***ACHTUNG:** Die lasereinheit nicht zerlegen. Die lasereinheit darf nur gegen enic vom hersteller spezifizierte einheit ausgetauscht werden.

*Capacity values are in microfarads (μ F) unless specified otherwise, P=Pico-farads (pF), F=Farads (F).

*Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM).

*The marking (RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.

*"<IA>", "<IB>", marks in Remarks indicate languages of instruction manuals. [<IA>: English/Canadian

French, <IB>: English]

**“(S)”, “(K)” marks in Remarks indicate models.

[(S): DMR-HS2PP-S, (K): DMR-T3040P-K]

*All parts are supplied by S.P.C..

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
<u>1</u>	RKM0467-K	TOP COVER	1	(T3040)
<u>1</u>	RKM0467-S	TOP COVER	1	(HS2)
<u>2</u>	SNE2129-3	SCREW	4	(T3040)
<u>2</u>	SNE2129-4	SCREW	4	(HS2)
<u>3</u>	VHD0690	SCREW	14	
<u>4</u>	ETXMM387A4F	POWER SUPPLY P.C.B.	1	(RTL)(HS2)
<u>4</u>	ETXMM421A4F	POWER SUPPLY P.C.B.	1	(RTL)(T3040)
<u>5</u>	REP3362D	MAIN P.C.B.	1	(RTL)
<u>5-1</u>	VEP07995B	VIF DECODER P.C.B.	1	(RTL)
<u>5-1-1</u>	VMP4471	VIF ANGLE	1	
<u>6</u>	REP3391D	DIGITAL P.C.B.	1	(RTL)
<u>8</u>	VEK9825	FFC(40P)	1	
<u>9</u>	N3CBRRB00012	HARD DISK DRIVE ASS'Y	1	
<u>10</u>	REP3369AA	PC CARD P.C.B.	1	(RTL)
<u>11</u>	VXA7512	PC CARD ANGLE	1	
<u>12</u>	XYN2+F6	SCREW	2	
<u>13</u>	RSC0673	HDD BARRIER	1	
<u>14</u>	RMR1481-K	PC CARD HOLDER	1	
<u>15</u>	VEK9904	WIRE WITH CONNECTOR(5P)	1	
<u>16</u>	REP3369AB	ATAPI P.C.B.	1	(RTL)
<u>19</u>	VEE0U08	WIRE WITH CONNECTOR(4P)	1	
<u>21</u>	VEK9893	FFC(40P)	1	
<u>22</u>	VEK9903	FFC(50P)	1	
<u>23</u>	RMV0245	BARRIER	1	
<u>24</u>	L6FALECE0002	FAN MOTOR	1	
<u>25</u>	RGR0328B-B	REAR PANEL	1	(HS2) 
<u>25</u>	RGR0328E-B	REAR PANEL	1	(T3040) 
<u>26</u>	RMN0203	PCB HOLDER	2	
<u>27</u>	RMN0712	FAN COVER	1	
<u>28</u>	RYQ0402-K	LEG	2	
<u>29</u>	RKA0144-K	FOOT RUBBER	2	
<u>30</u>	XSN3+4FZ	SCREW	1	
<u>31</u>	XTN3+35JFZ	SCREW	2	
<u>32</u>	XTN3+6F-C	SCREW	14	
<u>33</u>	XTV3+25J	SCREW	4	
<u>34</u>	RMA1565	HDD ANGLE	1	
<u>35</u>	XSN6-32+48FY	SCREW	4	
<u>36</u>	RMA1589	PC CARD ANGLE	1	
<u>37</u>	RYP1142A-S	FRONT PANEL ASS'Y2	1	(HS2)
<u>37</u>	RYP1142E-K	FRONT PANEL ASS'Y2	1	(T3040)
<u>37-1</u>	RGP0933A-K	FRONT PANEL	1	(T3040)
<u>37-1</u>	RGP0933A-S	FRONT PANEL	1	(HS2)
<u>37-2</u>	RYQ0389-S	POWER BUTTON ASS'Y	1	
<u>37-3</u>	RGU2107-K	OPEN BUTTON	1	(T3040)
<u>37-3</u>	RGU2139-S	OPEN BUTTON	1	(HS2)
<u>37-4</u>	RGU2108A-K	SKIP BUTTON	1	(T3040)
<u>37-4</u>	RGU2108A-S	SKIP BUTTON	1	(HS2)
<u>37-5</u>	RGU2111-Q	SIDE PIECE(R)	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
37-6	RGU2112-Q	SIDE PIECE(L)	1	
37-7	RGU2113-Q	CENTER PIECE(R)	1	
37-8	RGU2114A-S	CENTER PIECE(L)	1	
37-9	RGU2115-Q	CENTER PIECE(L)TOP	1	
37-10	RMR1455-S	SHAFT HOLDER	1	
37-11	RKF0643C-K	DOOR(R)	1	(T3040)
37-11	RKF0643C-S	DOOR(R)	1	(HS2)
37-12	RKF0644A-S	DOOR(L)	1	(HS2)
37-12	RKF0644D-K	DOOR(L)	1	(T3040)
37-13	RKF0645-K	TRAY DOOR	1	(T3040)
37-13	RKF0645-S	TRAY DOOR	1	(HS2)
37-14	VMB3410	BLINDER SPRING	1	
37-15	RMC0489	DOOR SPRING	2	
37-16	XTBS26+8J	SCREW	2	
38	RKF0648-K	PC CARD BLINDER	1	(T3040)
38	RKF0648-S	PC CARD BLINDER	1	(HS2)
39	RMB0721	PC CARD BLIDER SPRING	1	
40	RGZ0052-Q	NAVI RING	1	
41	RGK1541-K	FL ORNAMENT	1	(T3040)
41	RGK1541-Q	FL ORNAMENT	1	(HS2)
43	RGK1528-K	TRAY ORNAMENT	1	(T3040)
43	RGK1528-S	TRAY ORNAMENT	1	(HS2)
44	RGK1527B-K	FRONT ORNAMANT	1	(T3040)
44	RGK1527B-S	FRONT ORNAMANT	1	(HS2)
45	RGU2116-Q	HDD BUTTON	1	
46	RGU2117-Q	DVD BUTTON	1	
47	REP3386AC	STICK P.C.B.	1	(RTL)
48	VWJ1577	FFC(6P)	1	
49	RGK1530-K	NAVI BUTTON	1	(T3040)
49	RGK1530-S	NAVI BUTTON	1	(HS2)
50	XTBS26+8J	SCREW	9	
51	RYQ0390A-S	CH BUTTON ASS'Y	1	
52	REP3386BA	FRONT(L) P.C.B.	1	(RTL)
53	REP3386DB	FRONT(R) P.C.B.	1	(RTL)
54	RMC0501	EARTH PLATE (A)	1	
55	XQN16+B4FN	SCREW	1	(HS2)
55	XQN16+B4FZ	SCREW	1	(T3040)
56	RGL0600-Q	PANEL LIGHT	2	
57	REP3369AC	DV JACK P.C.B.	1	
58	RMC0521	EARTH PLATE	1	
59	RMC0520	DV EARTH	1	
60	XSN3+6FZ	SCREW	2	(T3040)
61	XTN4+8FFC	SCREW	1	(T3040)
62	XWC4BFC	WASHER	1	(T3040)
63	RMZ0660	BARRIER	1	
A1	EUR7615KF0	REMOTE CONTROL ASS'Y	1	
A2	VJA0788	A/V CORD	1	K1EA06CA0002
A3	K2CB2CB00006	AC CORD	1	(HS2) 
A3	VJA0488	AC CORD	1	K2CG3CH00001 (T3040) 
A4	VJA1091	RF COAXIAL CABLE	1	K1TXAAA00001
A5	RPQF0238	ACCESSORY CASE	1	
A6	RQT6570-P	OPERATING INSTRUCTIONS	1	(HS2)<1A> 
A6	RQT6571-C	OPERATING INSTRUCTIONS	1	(HS2)<1B> 
A6	RQT6637-P	OPERATING INSTRUCTIONS	1	(T3040)<1A> 

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
A7	XZB25X34C03X	POLYETHYLENE BAG	1	
A8	RFE0088-1	CLEANING CLOTH	1	
B7501	CR2354-1GUF	LITHIUM BATTERY	1	
C001	KH101K	100P	1	
C002	KH102M	1000P	1	(HS2PP) 
C002	KH222M	2200P	1	(T3040P) 
C003	ECQU2A224ML	0.22U	1	
C004	ECQU2A104ML	0.1U	1	
C005	KH102M	1000P	1	(HS2PP) 
C005	KH222M	2200P	1	(T3040P) 
C006	KH102M	1000P	1	
C007	KMM2E121	250V 120	1	
C008,09	MBB105K1	16V 1U	2	
C010	MBC102J5	50V 1000P	1	
C012	MBC681J5	50V 680P	1	
C014	CD152M	1500P	1	(T3040P) 
C014	CD471K	470P	1	(HS2PP) 
C015	MBB103K5	50V 0.01U	1	
C016	MBB224K1	16V 0.22U	1	
C017	YAB105K3	35V 1U	1	
C018	RR3AD102K	1KV 1000P	1	
C020	KY1V330Z	35V 33U	1	
C022	CC3AD470J	1KV 47P	1	
C023	KH101K	100P	1	
C024	KH102M	1000P	1	(HS2PP) 
C024	KH222M	2200P	1	(T3040P) 
C102	KY1A122	10V 1200U	1	
C104	TBB105K1	16V 1U	1	
C105	KY1A681L	10V 680U	1	
C106	KMG1V470	35V 47U	1	
C107	MBC102J5	50V 1000P	1	
C108	KY1E221	25V 220U	1	
C109	KY1E331	25V 330U	1	
C110	ECJ2XC1H331J	50V 330P	1	
C111	ECQB1H102JF	50V 1000P	1	
C112	KMG1E470	25V 47U	1	
C113	KMG1C471	10V 470U	1	
C115	MBB104K2	25V 0.1U	1	
C116	ECQB1H333JF	50V 0.033U	1	
C117	MBB104K2	25V 0.1U	1	
C118	KY0J152	6.3V 1500U	1	
C119	KY0J102	6.3V 1000U	1	
C120	KY1A471	10V 470U	1	
C121	KMG1E470	25V 47U	1	
C123	KY1A471	10V 470U	1	
C124	KY1A221	25V 220U	1	
C125	TBB224K2	25V 0.22U	1	
C128	TBB105K1	16V 1U	1	
C129	KMG1V470	35V 47U	1	
C301,02	ECJ2VC1H102J	50V 1000P	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C303	YBB104K2	25V 0.1U	1	
C304	MBB103K5	50V 0.01U	1	
C305	MBB333K5	50V 0.033U	1	
C306	MBB103K5	50V 0.01U	1	
C307,08	MBB105K1	16V 1U	2	
C309-12	YBB104K2	25V 0.1U	4	
C313,14	MBB105K1	16V 1U	2	
C315,16	YBB104K2	25V 0.1U	2	
C0701	F2A0J221A015	6.3V 220U	1	
C0702	F2A1HR10A013	50V 1U	1	
C0703	F2A1C1000018	16V 10U	1	
C0704	F2A1HR47A013	50V 4.7U	1	
C0705	F2A1A2200007	10V 22U	1	
C0710	ECUV1H330JPV	50V 33P	1	ECJ1VP1H330J
C0711,12	ECJ1VF1H103Z	50V 0.01U	2	
C0714	ECJ1VF1H103Z	50V 0.01U	1	
C0725	ECUV1C333KBV	16V 0.033U	1	ECJ1VB1C333K
C0727	ECJ1VB1H472K	50V 4700P	1	
C3001-04	ECJ1VC1H470J	50V 47P	4	
C3005	ECJ1VC1H560J	50V 56P	1	
C3006,07	ECUV1H390JCV	50V 39P	2	ECJ1VC1H390J
C3008	ECJ1VB1H103K	50V 0.01U	1	
C3009	ECEA0JKS470	6.3V 47U	1	
C3010	ECUV1H680JCV	50V 68P	1	ECJ1VC1H680J
C3011	ECUV1H390JCV	50V 39P	1	ECJ1VC1H390J
C3012	ECJ1VB1H103K	50V 0.01U	1	
C3014	ECJ1VC1H220J	50V 22P	1	
C3016	ECJ1VC1H220J	50V 22P	1	
C3017	ECJ1VB1H103K	50V 0.01U	1	
C3019	ECJ1VC1H330J	50V 33P	1	
C3020	ECJ1VC1H220J	50V 22P	1	
C3021	ECJ1VC1H120J	50V 12P	1	
C3022,23	ECEA1CKS100	16V 10U	2	
C3028	ECEA1HSN010	50V 1U	1	
C3029	ECJ1VB1H103K	50V 0.01U	1	
C3031	ECEA0JKS470	6.3V 47U	1	
C3032	ECJ1VB1H103K	50V 0.01U	1	
C3033	ECEA1HKS010	50V 1U	1	
C3034	ECJ1VB1H103K	50V 0.01U	1	
C3035,36	ECEA1HKS010	50V 1U	2	
C3037	ECJ1VB1H103K	50V 0.01U	1	
C3038,39	ECEA1HKS010	50V 1U	2	
C3040	ECJ1VB1H103K	50V 0.01U	1	
C3041	ECEA1HKS010	50V 1U	1	
C3042	ECEA1CKS100	16V 10U	1	
C3043	ECJ1VC1H560J	50V 56P	1	
C3044	ECJ1VB1C104K	16V 0.1U	1	
C3045	ECEA1HKS010	50V 1U	1	
C3046	ECEA0JKS470	6.3V 47U	1	
C3047	ECJ1VB1H103K	50V 0.01U	1	
C3048	ECEA1HSN010	50V 1U	1	
C3049	ECJ1VC1H150J	50V 15P	1	
C3052,53	ECEA0JKN470B	6.3V 47U	2	
C3055	ECA0JM102	6.3V 1000U	1	
C3056	ECEA0JKS101	6.3V 100U	1	
C3057	ECJ1VB1C104K	16V 0.1U	1	
C3058	ECJ1VC1H560J	50V 56P	1	



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3059	ECA0JM102	6.3V 1000U	1	
C3060	ECEA0JKS101	6.3V 100U	1	
C3061	ECA0JM102	6.3V 1000U	1	
C3062	ECEA0JKS101	6.3V 100U	1	
C3063,64	ECEA0JKS331	6.3V 330U	2	
C3072,73	ECJ1VC1H470J	50V 47P	2	
C3074	ECJ1VC1H560J	50V 56P	1	
C3075	ECUV1H390JCV	50V 39P	1	ECJ1VC1H390J
C3201	ECJ1VB1H103K	50V 0.01U	1	
C3202	ECST0JC107R	6.3V 100U	1	
C3203	ECJ1VB1C104K	16V 0.1U	1	
C3204	ECJ1VB1H103K	50V 0.01U	1	
C3205	ECJ1VF1C104Z	16V 0.1U	1	
C3208	ECJ1VF1C104Z	16V 0.1U	1	
C3209	ECJ1VB1H103K	50V 0.01U	1	
C3210	EEVHB0J220R	6.3V 22U	1	
C3211	ECJ1VF1C104Z	16V 0.1U	1	
C3212	ECJ1VB1H103K	50V 0.01U	1	
C3213	EEVHB0J220R	6.3V 22U	1	
C3214,15	ECJ1VF1C104Z	16V 0.1U	2	
C3216	ECJ1VB1H103K	50V 0.01U	1	
C3217-26	ECJ1VB1C104K	16V 0.1U	10	
C3227	EEVHB0J101P	6.3V 100U	1	
C3228	ECJ1VC1H151J	50V 150P	1	
C3901	ECJ1VB1C104K	16V 0.1U	1	
C3902	ECJ1VB1H103K	50V 0.01U	1	
C3904-06	ECJ1VB1H103K	50V 0.01U	3	
C3907	ECJ1VB1C104K	16V 0.1U	1	
C3908,09	ECJ1VB1H103K	50V 0.01U	2	
C4003	ECA1CAK100XB	16V 10U	1	
C4005	ECA1CAK470XB	16V 47U	1	
C4006	ECA1CAK100XB	16V 10U	1	
C4021	ECJ1VF1C104Z	16V 0.1U	1	
C4026	ECJ1VF1C104Z	16V 0.1U	1	
C4028	ECJ1VF1C104Z	16V 0.1U	1	
C4029	ECA1CPX221B	16V 220U	1	
C4030	ECJ1VF1C104Z	16V 0.1U	1	
C4033,34	F2A1C4700011	16V 47U	2	
C4037-42	ECA1CAK100XB	16V 10U	6	
C4043	ECJ1VF1C104Z	16V 0.1U	1	
C4044	ECA1CPX221B	16V 220U	1	
C4047,48	ECJ2VC1H102J	50V 1000P	2	
C4052,53	ECJ1VF1C104Z	16V 0.1U	2	
C4054	ECEA0JKS101	6.3V 100U	1	
C4055	ECJ1VF1C104Z	16V 0.1U	1	
C4056	ECA1CPX221B	16V 220U	1	
C4057	ECJ2VC1H101J	50V 100U	1	
C4058,59	ECJ1VF1C104Z	16V 0.1U	2	
C4060	ECJ2VC1H101J	50V 100U	1	
C4061	ECJ1VF1C104Z	16V 0.1U	1	
C4062	ECA1CAK101XB	16V 100U	1	
C4063,64	F2A1C4700011	16V 47U	2	
C4065	ECJ1VF1C104Z	16V 0.1U	1	
C4067	F2A0J470A179	6.3V 47U	1	
C4068,69	ECJ1VF1C104Z	16V 0.1U	2	
C4070	ECA1CAK101XB	16V 100U	1	
C4072	ECA1CAK101XB	16V 100U	1	



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4074	ECJ1VF1C104Z	16V 0.1U	1	
C4076-78	ECJ1VF1C104Z	16V 0.1U	3	
C4079,80	ECJ1VC1H330J	50V 33P	2	
C4082-85	ECJ2VC1H102J	50V 1000P	4	
C4091	ECJ1VF1C104Z	16V 0.1U	1	
C4401	ECJ1VF1C104Z	16V 0.1U	1	
C4403	ECJ1VF1C104Z	16V 0.1U	1	
C4404	F2G0J331A015	6.3V 330U	1	
C4407,08	EEVHB1C100R	16V 10U	2	
C4410	EEVHB0J220R	6.3V 22U	1	
C4411	ECJ1VF1C104Z	16V 0.1U	1	
C4412	EEVHB0J101P	6.3V 100U	1	
C4413	EEVHB1E4R7R	25V 4.7U	1	
C4414	ECST1AY106R	10V 10U	1	
C4415-17	ECJ1VF1C104Z	16V 0.1U	3	
C4420-25	ECJ1VB1H102K	50V 1000P	6	
C6003	ECUV1H010CCV	50V 1P	1	ECJ1VC1H010C
C6004	ECJ1VC1H470J	50V 47P	1	
C6701,02	ECJ1VB1C104K	16V 0.1U	2	
C6703	ECJ1VF1C104Z	16V 0.1U	1	
C6801-03	ECJ1VB1C103K	16V 0.01U	3	
C6804	ECJ1VB1C104K	16V 0.1U	1	
C6805	ECEA0JKS101	6.3V 100U	1	
C6806	ECJ1VB1C104K	16V 0.1U	1	
C6807	ECEA0JKS101	6.3V 100U	1	
C6808,09	ECEA0JKS470	6.3V 47U	2	
C6811	ECJ1VB1C104K	16V 0.1U	1	
C6812	ECJ1VB1C103K	16V 0.01U	1	
C7003	ECJ1VB1C104K	16V 0.1U	1	
C7004	F1H1C103A071	16V 0.01U	1	
C7010	ERJ3GEY0R00V	1/16W 0	1	
C7012	ECJ1VF1A105Z	10V 1U	1	
C7301	F2A1C1000018	16V 10U	1	
C7309,10	F2A1C1000018	16V 10U	2	
C7405	ECJ1VB1C104K	16V 0.1U	1	
C7406	F2A1A470A140	10V 47U	1	
C7407	F2A1H1R0A147	50V 1U	1	F2A1H1R0A146
C7412	F1H1C103A071	16V 0.01U	1	
C7413	ECJ1VB1C104K	16V 0.1U	1	
C7415	ECJ1VB1H103K	50V 0.01U	1	
C7423	ECJ1VB1C104K	16V 0.1U	1	
C7501	ECJ1VF1A105Z	10V 1U	1	
C7502	ECJ1VB1C104K	16V 0.1U	1	
C7509-16	ECJ1VC1H151J	50V 150P	8	
C7517	ECJ1VF1A105Z	10V 1U	1	
C7518	ECJ1VB1C104K	16V 0.1U	1	
C7520	ECJ1VF1A105Z	10V 1U	1	
C7521	ECJ1VC1H101J	50V 100P	1	
C7522	F2A1V220A174	35V 22U	1	
C7523	ECJ1VF1A105Z	10V 1U	1	
C7524	ECJ1VB1H103K	50V 0.01U	1	
C7525	F2A1V100A190	35V 10U	1	
C7526	ECJ1VB1C104K	16V 0.1U	1	
C7528	F2A1C221A243	16V 220U	1	
C7529	F2A0J221A256	6.3V 220U	1	
C7530	ECQB1H473KF3	50V 0.047U	1	
C7531	ECQB1H223KF3	50V 0.022U	1	



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7532	F2A1V220A174	35V 22U	1	
C7533	F2A1H100A218	50V 10U	1	
C7534	ECJ1VB1H102K	50V 1000P	1	
C7535	ECUV1H100DCV	50V 10U	1	ECJ1VC1H100D
C7537-40	ECJ1VB1H103K	50V 0.01U	4	
C7542	ECJ1VF1A105Z	10V 1U	1	
C7544	ECJ1VF1C104Z	16V 0.1U	1	
C7545	ECJ1VB1H103K	50V 0.01U	1	
C7551	ECJ1VC1H090D	50V 9P	1	
C7552	ECUV1H100DCV	50V 10U	1	ECJ1VC1H100D
C7553,54	ECUV1H180JCV	50V 18P	2	ECJ1VC1H180J
C7557	ECJ1VB1H102K	50V 1000P	1	
C7558	ECJ1VF1A105Z	10V 1U	1	
C7560	ECUV1H561JCV	50V 560P	1	ECJ1VC1H561J
C7561	ECJ1VB0J105K	6.3V 1U	1	
C7562,63	ECUV1H100DCV	50V 10U	2	ECJ1VC1H100D
C7564	ECJ1VC1H101J	50V 100P	1	
C7565	ECJ1VB1H103K	50V 0.01U	1	
C7566	ECJ1VC1H101J	50V 100P	1	
C7567,68	ECUV1H100DCV	50V 10U	2	ECJ1VC1H100D
C7569	ECJ1VB1C104K	16V 0.1U	1	
C7571	ECJ1VB1C104K	16V 0.1U	1	
C7574	ECJ1VB1C104K	16V 0.1U	1	
C7575	ECEA0JKS101	6.3V 100U	1	
C7576	ECJ1VB1H102K	50V 1000P	1	
C7577	ECEA1HSN010	50V 1U	1	
C7578	ECEA0JKS220	6.3V 22U	1	
C7580	ECEA0JKS101	6.3V 100U	1	
C7581	ECJ1VB1C104K	16V 0.1U	1	
C7582	F2A0J471A217	6.3V 470U	1	
C7585	ECJ1VB1H103K	50V 0.01U	1	
C7586	ECEA1CKA470	16V 47U	1	
C7587	ECJ1VB1H103K	50V 0.01U	1	
C7589	ECEA1CKA470	16V 47U	1	
C7591	ECJ1VC1H151J	50V 150P	1	
C7592,93	ECJ1VB1C104K	16V 0.1U	2	
C7595	ECJ1VB1H102K	50V 1000P	1	
C7596	ECJ1VB1C104K	16V 0.1U	1	
C9001-05	EEVHB0J470R	6.3V 47U	5	
C9007	F2G1C470A015	16V 47U	1	
C9011	EEVHB0J470R	6.3V 47U	1	
C9013	EEVHB0J470R	6.3V 47U	1	
C9016	EEVHB0J470R	6.3V 47U	1	
C9017	ECJ1VF1C104Z	16V 0.1U	1	
C9901	VCEA0JJC470B	6.3V 47U	1	F2A0J4700003
C9902	ECJ1VB1C104K	16V 0.1U	1	
C9903	VCEA0JJC470B	6.3V 47U	1	F2A0J4700003
C9904	ECJ1VB1C104K	16V 0.1U	1	
C9905	VCEA1CJC470B	16V 47U	1	F2A1C4700007
C9906	VCEA0JJC470B	6.3V 47U	1	F2A0J4700003
C9907	ECJ1VB1C104K	16V 0.1U	1	
C9908	F2A1E221A210	25V 220U	1	
C9909	F2A1A471A211	10V 470U	1	
C9910-12	F2A0J471A256	6.3V 470U	3	
C9913	F2A0J470A012	6.3V 47U	1	
C9915	ECJ1VB1C104K	16V 0.1U	1	
C9916	F2A0J470A012	6.3V 47U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9917	ECJ1VB1C104K	16V 0.1U	1	
C9918	F2A0J470A012	6.3V 47U	1	
C9919	ECJ1VB1C104K	16V 0.1U	1	
C9920	F2A0J470A012	6.3V 47U	1	
C9922	F2A0J470A012	6.3V 47U	1	
C9923	ECJ1VB1C104K	16V 0.1U	1	
C9924	F2A0J471A256	6.3V 470U	1	
C9925	F2A1C221A243	16V 220U	1	
C9926	ECJ1VB1H102K	50V 1000P	1	
C37001	ECUV1H271JCV	50V 270P	1	ECJ1VC1H271J
C37002,03	ECJ2YB1A105K	10V 1U	2	
C37007,08	ECJ1VC1H120J	50V 12P	2	
C37009	ECJ1VB1C104K	16V 0.1U	1	
C37011	ECJ1VB1C104K	16V 0.1U	1	
C37012	EEVHB0J470R	6.3V 47U	1	
C37013	ECJ1VF1C104Z	16V 0.1U	1	
C37014	ECJ2YB1A105K	10V 1U	1	
C37015	EEVHB0J101P	6.3V 100U	1	
C37025	ECJ1VF1C104Z	16V 0.1U	1	
C37031	ECUV1H180JCV	50V 18P	1	ECJ1VC1H180J
C37032	ECJ1VC1H330J	50V 33P	1	
C37033	ECJ1VF1C104Z	16V 0.1U	1	
C37034	ECJ2YB1A105K	10V 1U	1	
C37035,36	ECJ1VC1H560J	50V 56P	2	
C50007	ECJ1VB1C104K	16V 0.1U	1	
C50008,09	ECJ1VB0J105K	6.3V 1U	2	
C50010	EEVHB0J220R	6.3V 22U	1	
C50012,13	ECJ1VB1C104K	16V 0.1U	2	
C50014	ECJ1VF1C104Z	16V 0.1U	1	
C50015	EEVHB0J220R	6.3V 22U	1	
C50016	ECJ1VF1C104Z	16V 0.1U	1	
C50018	EEVHB0J101P	6.3V 100U	1	
C50025	ECJ1VF1C104Z	16V 0.1U	1	
C50026,27	EEVHB1C100R	16V 10U	2	
C50028	ECJ1VF1C104Z	16V 0.1U	1	
D001	D2SBA60	DIODE	1	
D002	MA728	DIODE	1	MA2J728
D006	M1FL20U	DIODE	1	
D007	AP01C	DIODE	1	B0HADV000010
D101,02	RL2ZLF	DIODE	2	B0HANM000021
D103	RK39	DIODE	1	
D104	YG802C06	DIODE	1	
D105	RK46	DIODE	1	B0JAPG000009
D106	RK49	DIODE	1	B0JAPK000005
D107-10	MA165	DIODE	4	MA2C165
D111	MA111TX	DIODE	1	MA2J11100L
D112	ERA15-04	DIODE	1	B0EAKP000016
D113	MA111TX	DIODE	1	MA2J11100L
D115,16	M1F60	DIODE	2	
D301-04	MA111TX	DIODE	4	MA2J11100L
D305	MA165	DIODE	1	MA2C165
D306-08	MA111TX	DIODE	3	MA2J11100L
D3201,02	MA3S132E0L	DIODE	2	
D4005,06	MA3Z142D0RG	DIODE	2	
D7002	LNJ201LPQJA	LED	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D7401	MA4300N-M	DIODE	1	MAZ4300NM
D7502	MAZ4240NMF	DIODE	1	
D7503	ERA22-02	DIODE	1	B0HAGM000001
D7504	VSD0002	DIODE	1	B0HAGR000005
D7505,06	MA2C18500E	DIODE	2	
D7507	MA4300N-M	DIODE	1	MAZ4300NM
D7509	B0JACE000001	DIODE	1	
D7511	MA719TA	DIODE	1	MA2C71900A
D7514	B0JACE000001	DIODE	1	
D7801	LNJ201LPQJA	LED	1	
D9001	MA3Z142K0LG	DIODE	1	
D9901,02	B0JACE000001	DIODE	2	
DP7501	A2BD00000056	DIODE	1	
DZ7001	ERZVA5V471	SURGE ABSORBER	1	
F001	SB125V-3.15	FUSE	1	(T3040P) 
FL0001	J0KD00000059	FILTER	1	
FL0002	J0KD00000060	FILTER	1	
FL0003	J0KE00000067	FILTER	1	
FL3202-18	F1H0J1050018	FILTER	17	
FL3220-22	F1H0J1050018	FILTER	3	
FL3225	F1H0J1050018	FILTER	1	
FL3401-06	F1H0J1050018	FILTER	6	
FL3409-19	F1H0J1050018	FILTER	11	
FL3421,22	F1H0J1050018	FILTER	2	
FL3425	F1H0J1050018	FILTER	1	
FL3428	F1H0J1050018	FILTER	1	
FL4401-04	F1H0J1050018	FILTER	4	
FL6001-05	F1H0J1050018	FILTER	5	
FL6007-13	F1H0J1050018	FILTER	7	
FL6701-04	F1H0J1050018	FILTER	4	
FL6707	F1H0J1050018	FILTER	1	
FL6801-06	F1H0J1050018	FILTER	6	
FL6808	F1H0J1050018	FILTER	1	
FL9001-03	J0HAAB000017	FILTER	3	
FL9004,05	F1H0J1050018	FILTER	2	
FL9006,07	J0HAAB000017	FILTER	2	
FL9008-10	J0HAAC000027	FILTER	3	
FL9011-13	F1H0J1050018	FILTER	3	
FL9016	F1J1A105A013	FILTER	1	
FL9020	F1H0J1050018	FILTER	1	
FL9022	F1H0J1050018	FILTER	1	
FL9024	F1H0J1050018	FILTER	1	
FL37001-10	F1H0J1050018	FILTER	10	
FL37012-15	F1H0J1050018	FILTER	4	
FL50001-14	F1H0J1050018	FILTER	14	
FL50016-21	F1H0J1050018	FILTER	6	
FL50023	F1H0J1050018	FILTER	1	
FL50025	F1H0J1050018	FILTER	1	
FL50027,28	F1H0J1050018	FILTER	2	
IC001	FA13844N	IC	1	
IC101	NJM431U	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC301,02	NJM2904M	IC	2	C0ABBA000021
IC0701	M52761SP	IC	1	C1AA00000458
IC3004	C1AB00000791	IC	1	
IC3005	C9ZB00000377	IC	1	
IC3201	C3ABMG000103	IC	1	
IC3202	AN13300A-VF	IC	1	
IC3203	MN673744	IC	1	
IC3401	C3ABPJ000018	IC	1	
IC3402	MN85572	IC	1	
IC3403,04	C3ABQG000007	IC	2	
IC3405	MN85610GL	IC	1	
IC4002	C0JBAR000285	IC	1	
IC4003	C0ABBB000216	IC	1	
IC4006	K7AABA000001	IC	1	
IC4007	C0JBAB000173	IC	1	
IC4009	C0ABBB000216	IC	1	
IC4010	C0DBZJG00005	IC	1	
IC4011	AN78L09M	IC	1	
IC4012	NJM4558M	IC	1	C0ABBB000044
IC4401	AN78L05M-E1	IC	1	AN78L05ME1
IC4404	C0ABBB000105	IC	1	
IC4405	C0FBAK000008	IC	1	
IC4406	C0JBAR000332	IC	1	
IC4407	C0JBAA000102	IC	1	
IC4408	C3BBHC000260	IC	1	
IC4409	C1ZBZ0002077	IC	1	
IC4410	C0JBAA000257	IC	1	
IC6001	C3ABQG000007	IC	1	
IC6002	C0JBBZ000269	IC	1	
IC6003	C0JBAZ001918	IC	1	
IC6005	MN103E030HYB	IC	1	
IC6007	C3CBKD000117	IC	1	
IC6008	C3ABQG000007	IC	1	
IC6701	C1ZBZ0001925	IC	1	
IC6702	C0EBE0000130	IC	1	
IC6703	C1ZBZ0002042	IC	1	
IC6705	C0JBAZ001918	IC	1	
IC6706	74LVX4245MTX	IC	1	C0JBAZ001406
IC6707	REP3391D	IC	1	DIGITAL P.C.B.
IC6708	C0JBAB000474	IC	1	
IC6801	C0JBAZ001859	IC	1	
IC6802	C1ZBZ0002086	IC	1	
IC6803	C0JBAZ001959	IC	1	
IC6804	C0JBAB000007	IC	1	
IC6805	TC7W14FU	IC	1	
IC6806	C0EBJ0000172	IC	1	
IC6807	TC7W32FUTL	IC	1	C0JBAE000098
IC6808	C0DBFHD00003	IC	1	
IC7301	SBX1690-52	IC	1	C5AA00000188
IC7501	C0HBB0000029	IC	1	
IC7502	C2CBHF000229	IC	1	
IC7503	C0EAJ0000045	IC	1	
IC7505	C0EBF0000057	IC	1	
IC7507	NJM2904M	IC	1	C0ABBA000021
IC9001	C0DBC GD00001	IC	1	
IC9901	C0DBFGD00009	IC	1	
IC9902	C0DBCHD00002	IC	1	



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC9903	C0DBFHD00003	IC	1	
IC9904	C0DBFFE00002	IC	1	
IC9905	C0DBFFD00006	IC	1	
IC9906	C0DBZJG00005	IC	1	
IC9907,08	C0DBFHD00003	IC	2	
IC9909	C0CBCBE00001	IC	1	
IC37001	MN673745	IC	1	
IC37002	C1DB00000526	IC	1	
IC37003	BH7086KV	IC	1	C1ZBZ0001649
IC37006	C1BB00000699	IC	1	
IC37007	C0JBAR000255	IC	1	
IC37008	C0JBAA000102	IC	1	
IC37009,10	C0JBAA000257	IC	2	
IC37011	C0JBAA000102	IC	1	
IC50001	C1DB00000895	IC	1	
IC50002	C3ABPG000067	IC	1	
IC50003	MN677551NA	IC	1	
IC50004	C3ABPG000067	IC	1	
IC50005	C0JBAR000332	IC	1	
IC50006	C0JBAB000474	IC	1	
IC50009	C1DB00000896	IC	1	
IC50010	C0FBBK000030	IC	1	
IC50011	C0CBCBD00002	IC	1	
IC50012	C0JBAZ001776	IC	1	
IC50013	C0JBAD000107	IC	1	
IC50014	C0JBAF000206	IC	1	
IC50015	C0CBCBD00002	IC	1	
IP101	ICPN15	IC PROTECTOR	1	
IP4001	D4FAR4000001	IC PROTECTOR	1	
IP7501	D4FAR4000001	IC PROTECTOR	1	
IR7001	C9ZZ00000015	REMOTE SENSOR	1	
JK3901	K1U822B00001	JACK,AV IN	1	
JK3902	K1U820B00002	JACK,AV OUT	1	
JK3903	K2HA304B0003	JACK,COMPONENT VIDEO OUT	1	
JK7001	K2HA307A0006	JACK,AV IN	1	
JK7002	K1CB104A0014	JACK,S-VIDEO IN	1	
K3008	ERJ3GEY0R00V	1/16W 0	1	
K3020	ERJ3GEY0R00V	1/16W 0	1	
K6801,02	ERJ3GEY0R00V	1/16W 0	2	
K7002	ERJ8GEY0R00V	1/8W 0	1	
K7004	ERJ3GEY0R00V	1/16W 0	1	
K7501	ERJ3GEY0R00V	1/16W 0	1	
K7504	ERJ3GEY0R00V	1/16W 0	1	
K7506,07	ERJ3GEY0R00V	1/16W 0	2	
K7510	ERJ3GEY0R00V	1/16W 0	1	
K7512,13	ERJ3GEY0R00V	1/16W 0	2	
K7518	ERJ3GEY0R00V	1/16W 0	1	
K7522	ERJ3GEY0R00V	1/16W 0	1	
L001	ELF15N008A	FILTER	1	(HS2PP) 
L001	ELF17N005A	FILTER	1	(T3040P) 

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L002	ELF15N008A	FILTER	1	(HS2PP) 
L002	ELF17N005A	FILTER	1	(T3040P) 
L003	EXCELD35V	FILTER	1	
L004	LHLZ330K	FILTER	1	
L101	EXCELD35V	FILTER	1	
L102	LHLZ1R0M	FILTER	1	
L103	EXCELD35V	FILTER	1	
L104	EXCELSA24	FILTER	1	
L105	LHLZ2R2M	FILTER	1	
L106	EXCELD35V	FILTER	1	
L107	LH8TB100K	FILTER	1	
L108	LHLZ1R5M	FILTER	1	
L109	LHLZ4R7M	FILTER	1	
L110,11	EXCELSA24	FILTER	2	
L113,14	EXCELD35V	FILTER	2	
L115	EXCELSA35	FILTER	1	
L116	LHLZ2R2M	FILTER	1	
L117	EXCELSA24	FILTER	1	
L0701	ELESN8R2KA	COIL	1	
L0702	ELJNAR22JF	COIL	1	
L0703	ELJNA1R2JF	COIL	1	
L3001	G0C120JA0019	COIL 12UH	1	
L3002	G0C220JA0019	COIL 22UH	1	
L3003,04	G0C120JA0019	COIL 12UH	2	
L3005	G0C220JA0019	COIL 22UH	1	
L3006	G0C120JA0019	COIL 12UH	1	
L3007	G0C4R7JA0019	COIL 4.7UH	1	
L3008	G0C220JA0019	COIL 22UH	1	
L3009	G0C4R7JA0019	COIL 4.7UH	1	
L3010	VLQ0599J6R8	COIL 6.8UH	1	G0C6R8JA0026
L3012	G0C4R7JA0019	COIL 4.7UH	1	
L3014	G0C120JA0019	COIL 12UH	1	
L3015,16	G0C4R7JA0019	COIL 4.7UH	2	
L3019	VLQ0599J6R8	COIL 6.8UH	1	G0C6R8JA0026
L3020	G0C120JA0019	COIL 12UH	1	
L3021	VLQ0599J6R8	COIL 6.8UH	1	G0C6R8JA0026
L3022	G0C120JA0019	COIL 12UH	1	
L4002	ELESE220KA	COIL 22UH	1	
L37001	VLQ0426J120	COIL 12UH	1	G1C120J00005
LB3201-03	J0JHC0000032	COIL	3	
LB3901-04	VLP0323A601T	COIL	4	J0JCC0000103
LB3908-18	VLP0323A601T	COIL	11	J0JCC0000103
LB4001	J0JGC0000020	COIL	1	
LB4002	VLP0323A601T	COIL	1	J0JCC0000103
LB4403-06	J0JGC0000020	COIL	4	
LB4907-14	VLP0323A601T	COIL	8	J0JCC0000103
LB6803,04	J0JHC0000032	COIL	2	
LB6805	J0JHC0000045	COIL	1	
LB7001-05	VLP0323A601T	COIL	5	J0JCC0000103
LB7401	J0JHC0000032	COIL	1	
LB7501	ERJ3GEY0R00V	1/16W 0	1	
LB7502	ERJ3GEYJ101V	1/16W 100	1	
LB7503-07	ERJ3GEY0R00V	1/16W 0	5	
LB7508	G0ZZ00001936	COIL	1	
LB7509-13	ERJ3GEY0R00V	1/16W 0	5	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
LB7514	ERJ3GEYJ101V	1/16W 100	1	
LB9001	J0JHC0000032	COIL	1	
LB9002,03	J0JHC0000045	COIL	2	
LB9005	J0JHC0000032	COIL	1	
LB9006	J0JHC0000045	COIL	1	
LB9007	J0JHC0000032	COIL	1	
LB9009	J0JHC0000032	COIL	1	
LB9012,13	J0JHC0000045	COIL	2	
LB9020,21	VLP0323A601T	COIL	2	J0JCC0000103
LB9028-30	VLP0323A601T	COIL	3	J0JCC0000103
LB9032	VLP0323A601T	COIL	1	J0JCC0000103
LB9034	VLP0323A601T	COIL	1	J0JCC0000103
LB9036-38	VLP0323A601T	COIL	3	J0JCC0000103
LB9040	VLP0323A601T	COIL	1	J0JCC0000103
LB9046	VLP0323A601T	COIL	1	J0JCC0000103
LB9801	ERJ3GEY0R00V	1/16W 0	1	
LB9901-03	J0JHC0000045	COIL	3	
LB9904,05	J0JHC0000046	COIL	2	
LB9906	J0JHC0000032	COIL	1	
LB9907	J0JHC0000045	COIL	1	
LB37001-03	J0JHC0000032	COIL	3	
LB37005	J0JHC0000032	COIL	1	
LB50001	J0JHC0000032	COIL	1	
LB50003	J0JGC0000020	COIL	1	
LB50004,05	J0JHC0000032	COIL	2	
LB50006	J0JGC0000020	COIL	1	
LX9801-08	D1H8R0040009	RESISTOR-RESISTOR	8	
P001	M2024	AC INLET	1	(HS2PP) 
P001	WWUX395A-1	AC INLET	1	(T3040P) 
P3401	K1MN40B00010	CONNECTOR(40P)	1	
P3402	K1MN40B00023	CONNECTOR(40P)	1	
P6001	K1KA06B00054	CONNECTOR(6P)	1	
P6701	K1MN50B00008	CONNECTOR(50P)	1	
P6801	K1MN50B00012	CONNECTOR(50P)	1	
P6802	K1NA68E00065	CONNECTOR(68P)	1	
P6803	K1KA05B00048	CONNECTOR(5P)	1	
P7001	K1KA20C00003	CONNECTOR(20P)	1	
P7501	K1KB20B00039	CONNECTOR(20P)	1	
P7503	TJS118601T	CONNECTOR(3P)	1	K1KA03A00173
P7801	K1KA10C00006	CONNECTOR(10P)	1	
P7802	K1MN06C00002	CONNECTOR(6P)	1	
P7901	TJSF45106	CONNECTOR(6P)	1	K1MN06B00066
P9001	K1KB80B00020	CONNECTOR(80P)	1	
P9801	K1KB40A00118	CONNECTOR(40P)	1	
P9802	K1MN40B00022	CONNECTOR(40P)	1	
P9901	K1KA05A00082	CONNECTOR(5P)	1	
P37001	K1KB08B00055	CONNECTOR(8P)	1	
P37002	K1KA08B00213	CONNECTOR(8P)	1	
P37003	K2HZ104B0010	CONNECTOR(104P)	1	
PC001	0N3171	PHOTO COUPLER	1	CNC1S171 
PC1	RPG6045	PACKING CASE	1	(HS2)
PC1	RPG6217	PACKING CASE	1	(T3040)
PC2	RPN1557A	CUSHION(L)	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
PC3	RPN1557B	CUSHION(R)	1	
PC4	VPF0505	POLYETHYLENE BAG	1	
PK0701	VJR0826E005W	CONNECTOR(5P)	1	K1MR05A00034
PK0702	VJR0826E008W	CONNECTOR(8P)	1	K1MR08A00042
PP0701	VJP3589E004B	CONNECTOR(MALE) 4P	1	K1KA04B00135
PP9901	K1KA80A00096	CONNECTOR(FEMALE) 80P	1	
PP9902	K1KA23A00003	CONNECTOR(MALE) 23P	1	
PS101	B4B-EH-A	CONNECTOR(4P)	1	
PS102	TWGP23XA1	CONNECTOR(23P)	1	
PS103	52724-1010	CONNECTOR(10P)	1	
PS104	B4B-EH-A	CONNECTOR(4P)	1	
Q001	FMG2A	TRANSISTOR	1	
Q002	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q004	2SK2543	TRANSISTOR	1	
Q101	UN221L	TRANSISTOR	1	UNR221L
Q102	2SB709A	TRANSISTOR	1	2SB0709A
Q103,04	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q105	UPA1720G	TRANSISTOR	1	
Q106	UN2111	TRANSISTOR	1	UNR2111
Q107	UPA1717G	TRANSISTOR	1	
Q301,02	2SK3366	TRANSISTOR	2	
Q303	2SD602A-R	TRANSISTOR	1	2SD0602AR
Q304	2SB710A	TRANSISTOR	1	2SB0710A
Q305	2SD602A-R	TRANSISTOR	1	2SD0602AR
Q306	2SB710A	TRANSISTOR	1	2SB0710A
Q307,08	2SB1218A	TRANSISTOR	2	
Q309,10	2SD1328-R	TRANSISTOR	2	2SD13280R
Q311,12	2SB1218A	TRANSISTOR	2	
Q3001,02	2SB1218A0L	TRANSISTOR	2	
Q3003	2SA153200L	TRANSISTOR	1	
Q3007	2SB1218A0L	TRANSISTOR	1	
Q3008	2SD1819A0L	TRANSISTOR	1	
Q3009	2SB1218A0L	TRANSISTOR	1	
Q3010	2SD1819A0L	TRANSISTOR	1	
Q3201	2SB1218A0L	TRANSISTOR	1	
Q3202	2SD1819A0L	TRANSISTOR	1	
Q4004	2SB1218A0L	TRANSISTOR	1	
Q4006-09	2SD132800L	TRANSISTOR	4	
Q6702-04	2SD0601A0L	TRANSISTOR	3	
Q7401	2SB1218A0L	TRANSISTOR	1	
Q7501	2SD1994BTAVT	TRANSISTOR	1	2SD1994BR1VT
Q7502	2SD0601A0L	TRANSISTOR	1	
Q7503-06	2SD1819A0L	TRANSISTOR	4	
Q7507	2SB1218A0L	TRANSISTOR	1	
Q7509	2SD1119-R	TRANSISTOR	1	2SD11190R
Q7510,11	2SD0601A0L	TRANSISTOR	2	
Q9901	2SD1819A0L	TRANSISTOR	1	
Q50001-05	2SB1218A0L	TRANSISTOR	5	
QR3001	UNR521100L	TRANSISTOR	1	
QR3004,05	UNR521100L	TRANSISTOR	2	
QR3006	UN5213TX	TRANSISTOR	1	UNR521300L

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
QR3008	UN5213TX	TRANSISTOR	1	UNR521300L
QR3010	UN5213TX	TRANSISTOR	1	UNR521300L
QR3401	UN521L	TRANSISTOR	1	UNR521L
QR3402,03	UN5213TX	TRANSISTOR	2	UNR521300L
QR4002-07	UNR521100L	TRANSISTOR	6	
QR4010,11	UNR521100L	TRANSISTOR	2	
QR6801	UN5213TX	TRANSISTOR	1	UNR521300L
QR6802	UNR521100L	TRANSISTOR	1	
QR7002,03	UN5213TX	TRANSISTOR	2	UNR521300L
QR7301	UNR211700L	TRANSISTOR	1	
QR7502-05	UN5113TW	TRANSISTOR	4	
QR7506	UN5212-TX	TRANSISTOR	1	UNR521200L
QR7802,03	UN5213TX	TRANSISTOR	2	UNR521300L
QR9001	UN5111	TRANSISTOR	1	UNR5111
QR9901	UNR521100L	TRANSISTOR	1	
R001	ERDS1TJ273	0.5W 27K	1	
R002	ERDS1TJ824	0.5W 820K	1	
R003	ERDS1TJ273	0.5W 27K	1	
R006	CR10J473	0.1W 47K	1	
R007	CR10F1502	0.1W 15K	1	
R008	CR10F1001	0.1W 1K	1	
R009	CR10J104	0.1W 100K	1	
R010	CR10F1000	0.1W 100	1	
R011	CR10J102	0.1W 1K	1	
R012	CR10J472	0.1W 4.7K	1	
R013	CR10J222	0.1W 2.2K	1	
R014	CR10J333	0.1W 33K	1	
R015,16	CR10J101	0.1W 100	2	
R018	CR10J1R0	0.1W 1	1	
R020	CR10J101	0.1W 100	1	
R021	CR10J561	0.1W 560	1	
R023	ERDS2TJ513	1/4W 51K	1	
R024-26	CR100R00	0	3	
R027	ERG1SJ121P	1W 120	1	
R028,29	CR10J1R0	0.1W 1	2	
R030	ERDS2TJ513	1/4W 51K	1	
R102	CR10J152	0.1W 1.5K	1	
R103	CR10J471	0.1W 470	1	
R104	CR10J100	0.1W 10	1	
R105	CR10J102	0.1W 1K	1	
R106	CR10J100	0.1W 10	1	
R107	CR10J220	0.1W 22	1	
R108	CR10J6R8	0.1W 6.8	1	
R111-13	CR10JR16	0.1W 0.16	3	
R114	CR10J101	0.1W 100	1	
R115	CR10J222	0.1W 2.2K	1	
R116	CR10J101	0.1W 100	1	
R118	ERDS2FJ121	1/4W 120	1	
R119	CR10J101	0.1W 100	1	
R120	ER0S2CHF1470	0.25W 137	1	
R120	ER0S2CKF1400	0.25W 140	1	
R120	ER0S2CKF1430	0.25W 143	1	
R121	CR10J471	0.1W 470	1	
R122-24	CR10JR16	0.1W 0.16	3	
R125	ERDS2FJ821	1/4W 820	1	
R126	CR10J102	0.1W 1K	1	



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R127	CR10J471	0.1W 470	1	
R129	CR10J222	0.1W 2.2K	1	
R130	ERDS2FJ332	1/4W 3.3K	1	
R131,32	CR10J102	0.1W 1K	2	
R135,36	CR10J682	0.1W 6.8K	2	
R137	CR100R00	0	1	
R139-42	CR10JR16	0.1W 0.16	4	
R144	CR10J822	0.1W 8.2K	1	
R145	ER0S2TKF4320	0.25W 432	1	
R145	ER0S2TKF4420	0.25W 442	1	
R145	ER0S2TKF4530	0.25W 422	1	EROS2TKF4220
R301,02	CR10J101	0.1W 100	2	
R303,04	CR10J103	0.1W 10K	2	
R305,06	CR10J472	0.1W 4.7K	2	
R307	CR10J102	0.1W 1K	1	
R308	ERDS2FJ472	1/4W 4.7K	1	
R309	CR10J102	0.1W 1K	1	
R310	CR10J472	0.1W 4.7K	1	
R311	CR10J683	0.1W 68K	1	
R312	CR10J472	0.1W 4.7K	1	
R313	CR10J683	0.1W 68K	1	
R314	CR10J472	0.1W 4.7K	1	
R315,16	CR10J752	0.1W 7.5K	2	
R317,18	CR10J102	0.1W 1K	2	
R319,20	CR10J472	0.1W 4.7K	2	
R321	CR10J822	0.1W 8.2K	1	
R322-26	CR10J103	0.1W 10K	5	
R327	CR10J223	0.1W 22K	1	
R328	CR10F2210	0.1W 221	1	
R329	CR10J223	0.1W 22K	1	
R330	CR10F2210	0.1W 221	1	
R331	CR10F1002	0.1W 10K	1	
R332	CR10F3321	0.1W 3.32K	1	
R333	CR10F1002	0.1W 10K	1	
R334	CR10F3321	0.1W 3.32K	1	
R335,36	CR10J103	0.1W 10K	2	
R337,38	CR10J473	0.1W 47K	2	
R339	CR10F9091	0.1W 9.09K	1	
R340	CR10F4752	0.1W 47.5K	1	
R341	CR10F9091	0.1W 9.09K	1	
R342	CR10F4752	0.1W 47.5K	1	
R343	CR10F6041	0.1W 6.04K	1	
R344	CR10F4752	0.1W 47.5K	1	
R345	CR10F6811	0.1W 6.81K	1	
R346	CR10F4752	0.1W 47.5K	1	
R347-50	CR10J103	0.1W 10K	4	
R0701	ERJ3GEYJ102V	1/16W 1K	1	
R0702	ERJ3RBD273V	1/16W 27K	1	
R0703	ERJ3RBD363	1/16W 36K	1	
R0704	ERJ3GEYJ221V	1/16W 220	1	
R0706	ERJ3GEYJ181V	1/16W 180	1	
R0708,09	ERJ3GEYJ683V	1/16W 68K	2	D0GB683JA002
R0711	ERJ3GEYJ334V	1/16W 330K	1	
R0713	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R0714	ERJ3GEYJ153V	1/16W 15K	1	
R0717	ERJ3GEYJ393V	1/16W 39K	1	D0GB393JA002
R0720	ERJ3GEYJ681V	1/16W 680	1	D0GB681JA002



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R0722	ERJ3GEYJ102V	1/16W 1K	1	
R3001	MCR03PZHJ561	1/16W 560	1	
R3002	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3004	MCR03PZHJ561	1/16W 560	1	
R3005	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3006	ERJ3GEYJ101V	1/16W 100	1	
R3007	ERJ3GEYJ102V	1/16W 1K	1	
R3008	MCR03PZHJ561	1/16W 560	1	
R3009	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3010	ERJ3GEYJ101V	1/16W 100	1	
R3011	ERJ3GEYJ102V	1/16W 1K	1	
R3024	ERJ3GEYJ102V	1/16W 1K	1	
R3025	MCR03PZHJ561	1/16W 560	1	
R3028	ERJ3GEYJ101V	1/16W 100	1	
R3029	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3030,31	ERJ3GEY0R00V	1/16W 0	2	
R3032	ERJ3GEYJ271V	1/16W 270	1	
R3033-35	ERJ3GEYJ221V	1/16W 220	3	
R3042	ERJ3GEYJ101V	1/16W 100	1	
R3043	ERJ3GEYJ102V	1/16W 1K	1	
R3044,45	ERJ3GEYJ151V	1/16W 150	2	
R3046	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R3047	ERJ3GEYJ101V	1/16W 100	1	
R3048	ERJ3GEYJ102V	1/16W 1K	1	
R3049,50	ERJ3GEYJ151V	1/16W 150	2	
R3051	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R3052	MCR03PZHJ561	1/16W 560	1	
R3053	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3204,05	ERJ3GEYJ822V	1/16W 8.2K	2	D0GB822JA002
R3206	ERJ3GEY0R00A	1/16W 0	1	
R3211,12	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R3213-15	ERJ3GEY0R00A	1/16W 0	3	
R3216	ERJ3GEYJ822V	1/16W 8.2K	1	D0GB822JA002
R3217,18	ERJ3GEYJ220V	1/16W 22	2	
R3219	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R3220,21	ERJ3RBD682V	1/16W 6.8K	2	
R3222	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002
R3223	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3224	ERJ3GEYJ102V	1/16W 1K	1	
R3225-27	ERJ3GEY0R00A	1/16W 0	3	
R3231,32	ERJ3GEYJ220V	1/16W 22	2	
R3236	ERJ3GEY0R00A	1/16W 0	1	
R3401	ERJ3GEYJ220V	1/16W 22	1	
R3407,08	ERJ3GEYJ820V	1/16W 82	2	
R3409	ERJ3GEYJ102V	1/16W 1K	1	
R3410	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R3411	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3412	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R3413,14	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3415,16	ERJ3GEYJ220V	1/16W 22	2	
R3419	ERJ3GEYJ220V	1/16W 22	1	
R3420	ERJ3GEYJ105V	1/16W 1M	1	
R3422-24	ERJ3GEYJ220V	1/16W 22	3	
R3425	ERJ3GEY0R00A	1/16W 0	1	
R3426	ERJ3GEYJ220V	1/16W 22	1	
R3427	ERJ3GEY0R00A	1/16W 0	1	
R3901-08	ERJ3GEYJ750	1/16W 75	8	



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3909,10	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3911	ERJ3GEYJ124V	1/16W 120K	1	D0GB124JA002
R3912	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R3913	ERJ3GEYJ124V	1/16W 120K	1	D0GB124JA002
R3914	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R3915,16	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3920-24	ERJ3GEYJ750	1/16W 75	5	
R3926,27	ERJ3GEYJ750	1/16W 75	2	
R4001	ERJ3GEY0R00V	1/16W 0	1	
R4002	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4004	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R4011	ERJ3GEYJ243V	1/16W 24K	1	D0GB243JA002
R4013	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002
R4014	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4015	ERJ3GEYJ243V	1/16W 24K	1	D0GB243JA002
R4017	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4021,22	ERJ3GEY0R00V	1/16W 0	2	
R4024	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4026	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002
R4030	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4037,38	ERJ3GEYJ184V	1/16W 180K	2	
R4040-43	ERJ3GEYJ184V	1/16W 180K	4	
R4044,45	ERJ3RBD181V	1/16W 180	2	
R4046,47	ERJ3RBD392V	1/16W 3.9K	2	
R4048	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R4049-54	ERJ3GEYJ683V	1/16W 68K	6	D0GB683JA002
R4055	ERJ3RBD822V	1/16W 8.2K	1	
R4056	ERJ3RBD272V	1/16W 2.7K	1	
R4057	ERJ3RBD822V	1/16W 8.2K	1	
R4058	ERJ3RBD272V	1/16W 2.7K	1	
R4060-65	ERJ3GEYJ183V	1/16W 18K	6	D0GB183JA002
R4066,67	ERJ3RBD103V	1/16W 10K	2	
R4068	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R4071	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R4072,73	ERJ3GEYJ563V	1/16W 56K	2	
R4074	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R4076,77	ERJ3RBD821V	1/16W 820	2	
R4078,79	ERJ3GEYJ272V	1/16W 2.7K	2	
R4080,81	ERJ3RBD821V	1/16W 820	2	
R4083	ERJ3GEYJ303V	1/16W 30K	1	
R4086	ERJ3GEYJ303V	1/16W 30K	1	
R4087	ERJ3GEY0R00V	1/16W 0	1	
R4088,89	ERJ3GEYJ272V	1/16W 2.7K	2	
R4090-93	ERJ3RBD221V	1/16W 220	4	
R4403	ERJ3RBD123V	1/16W 12K	1	
R4404	ERJ3RBD133V	116W 13K	1	
R4405,06	ERJ3RBD682V	1/16W 6.8K	2	
R4407	ERJ3RBD123V	1/16W 12K	1	
R4408	ERJ3RBD133V	116W 13K	1	
R4409,10	ERJ3GEY0R00A	1/16W 0	2	
R4411	ERJ3GEYJ221V	1/16W 220	1	
R4412,13	ERJ3GEY0R00A	1/16W 0	2	
R4414	ERJ3GEYJ220V	1/16W 22	1	
R4415,16	ERJ3GEY0R00A	1/16W 0	2	
R4420	ERJ3GEYJ470V	1/16W 47	1	
R4422	ERJ3GEY0R00A	1/16W 0	1	
R4424	ERJ3GEY0R00A	1/16W 0	1	



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4426	ERJ3GEY0R00A	1/16W 0	1	
R4428	ERJ3GEY0R00A	1/16W 0	1	
R4430	ERJ3GEY0R00A	1/16W 0	1	
R4436,37	ERJ3GEY0R00A	1/16W 0	2	
R6001	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R6003	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6004	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6005,06	ERJ3GEYJ330V	1/16W 33	2	D0GB330JA002
R6007	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6008,09	ERJ3GEYJ470V	1/16W 47	2	
R6010	ERJ3GEYJ102V	1/16W 1K	1	
R6011	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R6012	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6015	ERJ3GEYJ105V	1/16W 1M	1	
R6016	ERJ3GEYJ470V	1/16W 47	1	
R6017	ERJ3GEY0R00A	1/16W 0	1	
R6019-21	ERJ3GEYJ103V	1/16W 10K	3	D0GB103JA002
R6022	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R6023	ERJ3GEYJ470V	1/16W 47	1	
R6024	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6025,26	ERJ3GEYJ332V	1/16W 3.3K	2	D0GB332JA002
R6028	ERJ3GEY0R00A	1/16W 0	1	
R6029	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R6030	ERJ3GEY0R00A	1/16W 0	1	
R6031,32	ERJ3GEYJ222V	1/16W 2.2K	2	D0GB222JA002
R6034	ERJ3GEYJ470V	1/16W 47	1	
R6035,36	ERJ3GEYJ333V	1/16W 33K	2	D0GB333JA002
R6037,38	ERJ3GEYJ470V	1/16W 47	2	
R6039	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6040	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R6041	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6042	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R6043-45	ERJ3GEYJ470V	1/16W 47	3	
R6046	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R6048	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6051	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6052	ERJ3GEY0R00A	1/16W 0	1	
R6701	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6703	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6704	ERJ3GEYJ472V	1/16W 4.7K	1	
R6705	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6706	ERJ3GEYJ472V	1/16W 4.7K	1	
R6707	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6708	ERJ3GEY0R00A	1/16W 0	1	
R6709	ERJ3GEYJ470V	1/16W 47	1	
R6710	ERJ3GEYJ472V	1/16W 4.7K	1	
R6711,12	ERJ3GEYJ470V	1/16W 47	2	
R6713	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R6714	ERJ3GEYJ102V	1/16W 1K	1	
R6715,16	ERJ3GEY0R00A	1/16W 0	2	
R6717	ERJ3GEYJ470V	1/16W 47	1	
R6718	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R6719	ERJ3GEYJ470V	1/16W 47	1	
R6721-23	ERJ3GEY0R00A	1/16W 0	3	
R6724	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6725	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R6726	ERJ3GEYJ470V	1/16W 47	1	



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6728-30	ERJ3GEYJ470V	1/16W 47	3	
R6731	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002
R6733,34	ERJ3GEYJ470V	1/16W 47	2	
R6735	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6736	ERJ3GEYJ102V	1/16W 1K	1	
R6740	ERJ3GEY0R00A	1/16W 0	1	
R6801	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R6805-14	ERJ3GEYJ223V	1/16W 22K	10	D0GB223JA002
R6815	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002
R6816	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R6817	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R6818	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R6820	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R6821,22	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R6823	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7002	ERDS2FJ330	1/4W 33	1	
R7003	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7004	ERJ3GEYJ124V	1/16W 120K	1	D0GB124JA002
R7005	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R7006,07	ERDS2FJ221	1/4W 220	2	
R7008-10	ERJ3GEYJ750	1/16W 75	3	
R7302,03	ERJ3GEYJ682V	1/16W 6.8K	2	D0GB682JA002
R7304,05	ERJ3GEYJ472V	1/16W 4.7K	2	
R7309-12	ERJ3GEYJ392V	1/16W 3.9K	4	
R7414	ERJ3GEYJ681V	1/16W 680	1	D0GB681JA002
R7417	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7419,20	ERJ3GEY0R00V	1/16W 0	2	
R7421	ERG2SJ471E	2W 470	1	
R7426,27	ERJ3GEYJ221V	1/16W 220	2	
R7434	ERG2SJ471E	2W 470	1	
R7455	ERJ3GEY0R00V	1/16W 0	1	
R7501	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7502	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R7503	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7504	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R7505	ERJ3GEYJ221V	1/16W 220	1	
R7506,07	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R7511	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7516	ERJ3RBD273V	1/16W 27K	1	
R7518	ERDS2FJ331	1/4W 330	1	
R7519	ERDS2FJ2R2	1/4W 2.2	1	
R7520	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R7521	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R7522,23	ERJ3GEYJ104V	1/16W 100K	2	D0GB104JA002
R7524	ERJ3GEYJ101V	1/16W 100	1	
R7525,26	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R7527,28	ERJ3GEYJ101V	1/16W 100	2	
R7529	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7530	ERJ3GEYJ123V	1/16W 12K	1	
R7531	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7532	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7533	ERJ3GEYJ123V	1/16W 12K	1	
R7534	ERJ3GEYJ392V	1/16W 3.9K	1	
R7535-37	ERJ3RBD822V	1/16W 8.2K	3	
R7538	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7539	ERJ3GEYJ221V	1/16W 220	1	
R7541	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7544	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002
R7550	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R7559	ERJ3GEY0R00V	1/16W 0	1	
R7560	ERJ3GEYJ391V	1/16W 390	1	
R7561-65	ERJ3GEYJ101V	1/16W 100	5	
R7566	ERJ3GEYJ221V	1/16W 220	1	
R7567,68	ERJ3GEYJ101V	1/16W 100	2	
R7569	ERJ3GEYJ104V	1/16W 100K	1	D0GB104JA002
R7570	ERJ3GEYJ102V	1/16W 1K	1	
R7571,72	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R7573,74	ERJ3GEYJ221V	1/16W 220	2	
R7575	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7576	ERJ3GEYJ153V	1/16W 15K	1	
R7577,78	ERJ3GEYJ472V	1/16W 4.7K	2	
R7580	ERJ3GEYJ472V	1/16W 4.7K	1	
R7582	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7583	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7584	ERJ3GEYJ472V	1/16W 4.7K	1	
R7590	ERJ3GEYJ105V	1/16W 1M	1	
R7591	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R7592	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7593	ERJ3GEYJ102V	1/16W 1K	1	
R7594	ERJ3GEYJ823V	1/16W 82K	1	D0GB823JA002
R7595	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R7596	ERJ3GEYJ471V	1/16W 470	1	
R7597	ERJ3GEYJ472V	1/16W 4.7K	1	
R7598	ERJ3GEYJ102V	1/16W 1K	1	
R7600	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7601	ERJ3GEYJ821V	1/16W 820	1	
R7602	ERJ3GEYJ133V	1/16W 13K	1	
R7603,04	ERJ3GEY0R00V	1/16W 0	2	
R7801	ERJ3RBD122V	1/16W 1.2K	1	
R7802	ERJ3RBD152V	1/16W 1.5K	1	
R7803	ERJ3RBD122V	1/16W 1.2K	1	
R7804	ERJ3RBD152V	1/16W 1.5K	1	
R7805	ERJ3RBD222V	1/16W 2.2K	1	
R7806	ERJ3RBD332V	1/16W 3.3K	1	
R7807	ERJ3RBD562V	1/16W 5.6K	1	
R7808	ERJ3RBD113V	1/16W 11K	1	
R7810	ERJ3RBD122V	1/16W 1.2K	1	
R7811	ERJ3RBD152V	1/16W 1.5K	1	
R7812	ERJ3RBD222V	1/16W 2.2K	1	
R7813	ERJ3RBD332V	1/16W 3.3K	1	
R7814	ERJ3RBD562V	1/16W 5.6K	1	
R7815	ERJ3RBD113V	1/16W 11K	1	
R7816	ERJ3RBD333V	1/16W 33K	1	
R7817,18	ERDS2FJ221	1/4W 220	2	
R7819	ERJ3RBD222V	1/16W 2.2K	1	
R7820	ERJ3RBD332V	1/16W 3.3K	1	
R7821	ERJ3RBD562V	1/16W 5.6K	1	
R7822	ERJ3RBD113V	1/16W 11K	1	
R9001	ERJ3GEYJ102V	1/16W 1K	1	
R9004	ERJ3GEYJ470V	1/16W 47	1	
R9008-10	ERJ3GEY0R00A	1/16W 0	3	
R9012	ERJ3GEYJ101V	1/16W 100	1	
R9015	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R9016	ERJ3GEYJ102V	1/16W 1K	1	



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9904	ERJ3GEYJ102V	1/16W 1K	1	
R9905	ERJ3RBD471V	1/16W 470	1	
R9906	ERJ3RED300V	1/16W 30	1	
R9907	ERJ3RBD102V	1/16W 1K	1	
R9908	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R9909,10	ERDS2FJ221	1/4W 220	2	
R9911	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R9913	ERDS2FJ271	1/4W 270	1	
R37001-04	ERJ3RED560	1/16W 56	4	
R37005	ERJ3RBD512	1/16W 5.1K	1	
R37006	ERJ3GEYJ105V	1/16W 1M	1	
R37007	ERJ3RBD622	1/16W 6.2K	1	
R37008	ERJ3RBD181V	1/16W 180	1	
R37009	ERJ3GEYJ102V	1/16W 1K	1	
R37010-15	ERJ3GEY0R00A	1/16W 0	6	
R37016	ERJ3GEYJ102V	1/16W 1K	1	
R37017	ERJ3GEYJ472V	1/16W 4.7K	1	
R37018	ERJ3GEYJ105V	1/16W 1M	1	
R37019,20	ERJ3GEY0R00A	1/16W 0	2	
R37021	ERJ3GEYJ102V	1/16W 1K	1	
R37022	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R37024-27	ERJ3GEYJ470V	1/16W 47	4	
R37028	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002
R37029,30	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R37040-43	ERJ3GEYJ470V	1/16W 47	4	
R37044	ERJ3GEYJ221V	1/16W 220	1	
R37045	ERJ3GEYJ470V	1/16W 47	1	
R37046	ERJ3GEYJ102V	1/16W 1K	1	
R37047,48	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R37049	ERJ3GEYJ101V	1/16W 100	1	
R37050-52	ERJ3GEYJ103V	1/16W 10K	3	D0GB103JA002
R37053	ERJ3GEY0R00A	1/16W 0	1	
R37054	ERJ3GEYJ472V	1/16W 4.7K	1	
R37055	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R37056	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R37057,58	ERJ3GEY0R00A	1/16W 0	2	
R37060	ERJ3GEYJ220V	1/16W 22	1	
R37061,62	ERJ3GEY0R00A	1/16W 0	2	
R37063	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R37064	ERJ3GEY0R00A	1/16W 0	1	
R37065	ERJ3GEYJ101V	1/16W 100	1	
R37066	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R37067	ERJ3GEY0R00A	1/16W 0	1	
R37068,69	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R37100	ERJ3GEYJ220V	1/16W 22	1	
R37103	ERJ3GEYJ220V	1/16W 22	1	
R37104-06	ERJ3GEYJ103V	1/16W 10K	3	D0GB103JA002
R37109,10	ERJ3GEYJ101V	1/16W 100	2	
R50001	ERJ3GEYJ220V	1/16W 22	1	
R50002,03	ERJ3GEYJ470V	1/16W 47	2	
R50004	ERJ3GEYJ220V	1/16W 22	1	
R50005,06	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R50007-10	ERJ3GEYJ220V	1/16W 22	4	
R50012	ERJ3GEY0R00A	1/16W 0	1	
R50013	ERJ3RBD153V	1/16W 15K	1	
R50014	ERJ3GEY0R00A	1/16W 0	1	
R50015	ERJ3RBD153V	1/16W 15K	1	



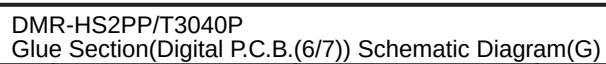
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R50016	ERJ3GEY0R00A	1/16W 0	1	
R50017	ERJ3GEYJ390	1/16W 39	1	
R50018-20	ERJ3GEY0R00A	1/16W 0	3	
R50021	ERJ3GEYJ220V	1/16W 22	1	
R50022	ERJ3GEYJ102V	1/16W 1K	1	
R50023	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50024	ERJ3GEY0R00A	1/16W 0	1	
R50025	ERJ3RED750V	1/16W 75	1	
R50026	ERJ3GEYJ102V	1/16W 1K	1	
R50027	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50030	ERJ3RED750V	1/16W 75	1	
R50031	ERJ3GEYJ102V	1/16W 1K	1	
R50032	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50033	ERJ3GEY0R00A	1/16W 0	1	
R50034	ERJ3RED360V	1/16W 36	1	
R50035	ERJ3GEYJ102V	1/16W 1K	1	
R50036	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50037	ERJ3GEY0R00A	1/16W 0	1	
R50038	ERJ3RED360V	1/16W 36	1	
R50039	ERJ3GEYJ102V	1/16W 1K	1	
R50040	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50042	ERJ3RED750V	1/16W 75	1	
R50043	ERJ3RBD273V	1/16W 27K	1	
R50044-47	ERJ3GEY0R00A	1/16W 0	4	
R50048	ERJ3RBD182V	1/16W 1.8K	1	
R50049	ERJ3RBD223V	1/16W 22K	1	
R50050,51	ERJ3GEY0R00A	1/16W 0	2	
R50052-56	ERJ3GEYJ470V	1/16W 47	5	
R50057	ERJ3GEY0R00A	1/16W 0	1	
R50058,59	ERJ3GEYJ220V	1/16W 22	2	
R50060	ERJ3GEYJ470V	1/16W 47	1	
R50061	ERJ3GEY0R00A	1/16W 0	1	
RA3201-04	D1H82204A024	RESISTOR-RESISTOR	4	
RA3205-08	D1H83304A024	RESISTOR-RESISTOR	4	
RA3209,10	D1H82204A024	RESISTOR-RESISTOR	2	
RA3401-16	D1H82204A024	RESISTOR-RESISTOR	16	
RA3419-24	D1H81034A024	RESISTOR-RESISTOR	6	
RA3425-27	D1H82204A024	RESISTOR-RESISTOR	3	
RA3433	D1H82204A024	RESISTOR-RESISTOR	1	
RA3435,36	D1H82204A024	RESISTOR-RESISTOR	2	
RA3437,38	D1H81044A024	RESISTOR-RESISTOR	2	
RA3439-41	D1H82204A024	RESISTOR-RESISTOR	3	
RA3442-46	D1H81044A024	RESISTOR-RESISTOR	5	
RA6001-04	D1H84704A024	RESISTOR-RESISTOR	4	
RA6005	D1H83334A024	RESISTOR-RESISTOR	1	
RA6006	D1H84704A024	RESISTOR-RESISTOR	1	
RA6007	D1H83324A024	RESISTOR-RESISTOR	1	
RA6008	D1H83334A024	RESISTOR-RESISTOR	1	
RA6009-12	D1H83304A024	RESISTOR-RESISTOR	4	
RA6013-18	D1H84704A024	RESISTOR-RESISTOR	6	
RA6019,20	D1H83304A024	RESISTOR-RESISTOR	2	
RA6021	D1H81034A024	RESISTOR-RESISTOR	1	
RA6023	D1H84704A024	RESISTOR-RESISTOR	1	
RA6029-32	D1H83304A024	RESISTOR-RESISTOR	4	
RA6037	D1H83334A024	RESISTOR-RESISTOR	1	
RA6038	D1H83324A024	RESISTOR-RESISTOR	1	

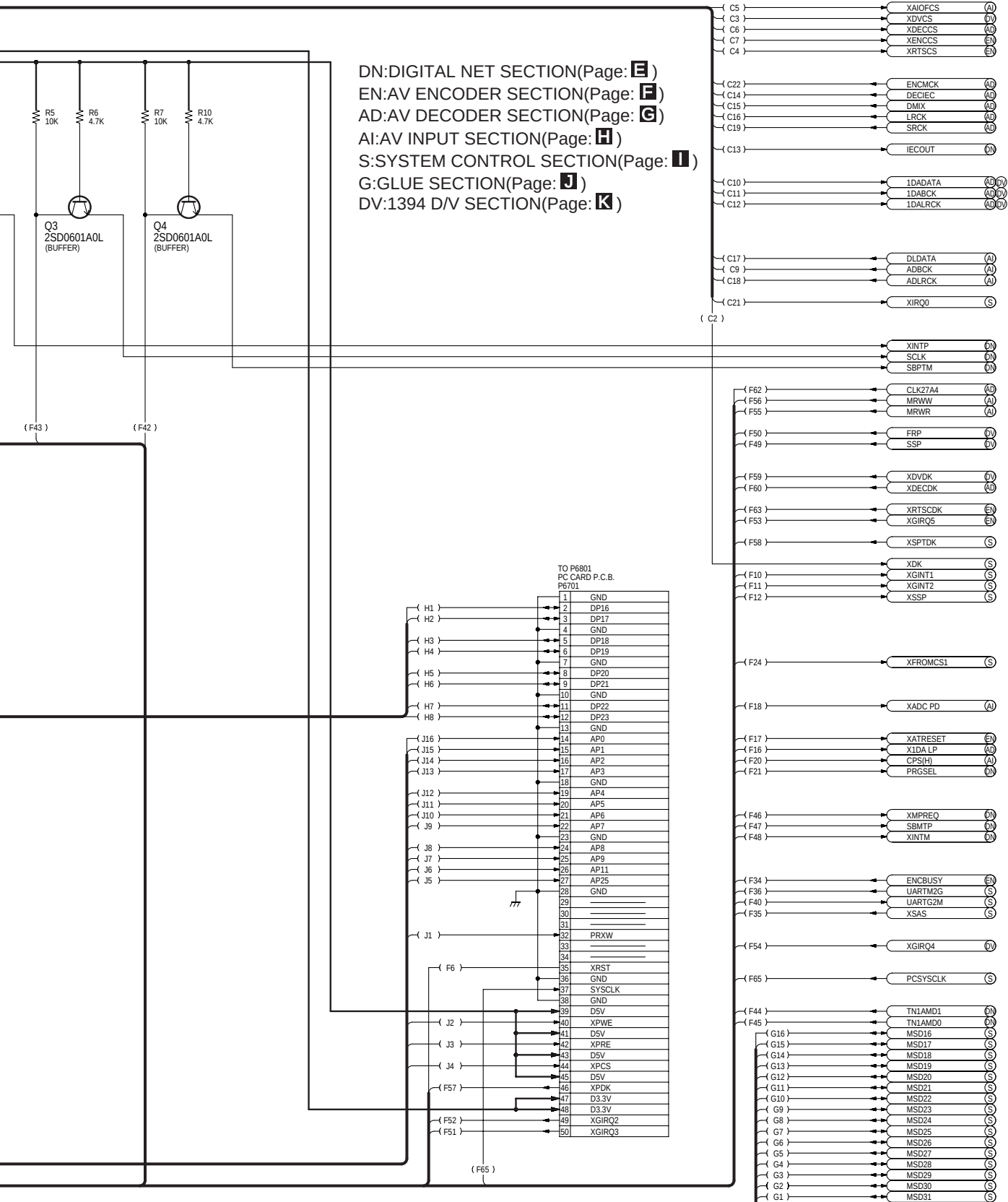
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
RA6039	D1H84704A024	RESISTOR-RESISTOR	1	
RA6040-51	D1H83304A024	RESISTOR-RESISTOR	12	
RA6052	D1H84704A024	RESISTOR-RESISTOR	1	
RA6053-60	D1H83304A024	RESISTOR-RESISTOR	8	
RA6061,62	D1H83334A024	RESISTOR-RESISTOR	2	
RA6063-66	D1H84704A024	RESISTOR-RESISTOR	4	
RA6072	D1H84704A024	RESISTOR-RESISTOR	1	
RA6082	D1H83334A024	RESISTOR-RESISTOR	1	
RA6084	D1H83334A024	RESISTOR-RESISTOR	1	
RA6701-06	D1H84704A024	RESISTOR-RESISTOR	6	
RA6708	D1H83324A024	RESISTOR-RESISTOR	1	
RA6709-11	D1H81034A024	RESISTOR-RESISTOR	3	
RA6712	D1H84704A024	RESISTOR-RESISTOR	1	
RA6713	D1H81034A024	RESISTOR-RESISTOR	1	
RA6714	D1H82224A024	RESISTOR-RESISTOR	1	
RA6715-18	D1H83324A024	RESISTOR-RESISTOR	4	
RA6719-23	D1H84704A024	RESISTOR-RESISTOR	5	
RA6724	D1H81034A024	RESISTOR-RESISTOR	1	
RA6725-30	D1H84704A024	RESISTOR-RESISTOR	6	
RA6731-36	D1H83304A024	RESISTOR-RESISTOR	6	
RA6737,38	D1H81034A024	RESISTOR-RESISTOR	2	
RA6739,40	D1H83304A024	RESISTOR-RESISTOR	2	
RA6741	D1H84704A024	RESISTOR-RESISTOR	1	
RA37001-03	D1H81034A024	RESISTOR-RESISTOR	3	
RA37006-14	D1H82204A024	RESISTOR-RESISTOR	9	
RA50009-16	D1H82204A024	RESISTOR-RESISTOR	8	
RA50017	D1H81034A024	RESISTOR-RESISTOR	1	
RA50018-25	D1H82204A024	RESISTOR-RESISTOR	8	
RA50026-29	D1H84704A024	RESISTOR-RESISTOR	4	
RX6801-06	D1H83304A024	RESISTOR-RESISTOR	6	
RX6807	D1H84734A024	RESISTOR-RESISTOR	1	
RX6808,09	D1H83304A024	RESISTOR-RESISTOR	2	
RX6810	D1H84734A024	RESISTOR-RESISTOR	1	
RX6811,12	D1H83304A024	RESISTOR-RESISTOR	2	
RX6818-20	D1H83304A024	RESISTOR-RESISTOR	3	
S7001	EVQ11G07K	SWITCH(POWER)	1	
S7002	K0H1BA000332	SWITCH(HDD)	1	
S7801	K0L1BA000056	SWITCH(TRAY)	1	
S7802	EVQ11G07K	SWITCH(RETURN)	1	
S7803	EVQ11G07K	SWITCH(PAUSE)	1	
S7804	EVQ11G07K	SWITCH(PLAY)	1	
S7805	EVQ11G07K	SWITCH(OPEN/CLOSE)	1	
S7806	EVQ11G07K	SWITCH(CH UP)	1	
S7807	EVQ11G07K	SWITCH(SKIP F)	1	
S7808	EVQ11G07K	SWITCH(FUNCTIONS)	1	
S7810	EVQ11G07K	SWITCH(STOP)	1	
S7811	EVQ11G07K	SWITCH(CH DOWN)	1	
S7812	EVQ11G07K	SWITCH(SKIP R)	1	
S7814	EVQ11G07K	SWITCH(REC)	1	
S7815	EVQ11G07K	SWITCH(REC MODE)	1	
S7816	EVQ11G07K	SWITCH(TIME SLIP)	1	
S7817	K0H1BA000332	SWITCH(DVD)	1	
S7901	K0C115A00002	SWITCH(ENTER)	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
T001	ETB28BF1J5	TRANSFORMER	1	
T0703	EQV5EC072A	TRANSFORMER	1	
T7501	ETS13TB119AP	TRANSFORMER	1	
T37001	J0JBD0000030	TRANSFORMER	1	
TH001	NC21F104J	THERMISTOR	1	(T3040P)
TH001	NC21F401J	THERMISTOR	1	(HS2PP)
TU7401	ENV56G01H6	TUNER PACK	1	
VR102	EVMEASA01B52	V.R.	1	
VR7301	EVNCYAA03B23	2K	1	
W10,11	ERJ3GEY0R00V	1/16W 0	2	
W13	ERJ3GEY0R00V	1/16W 0	1	
W20,21	ERJ3GEY0R00V	1/16W 0	2	
W23	ERJ3GEY0R00V	1/16W 0	1	
W501	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W501	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W502	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W502	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W503,04	ERJ3GEY0R00V	1/16W 0	2	MAIN P.C.B.
W504	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W505,06	ERJ3GEY0R00V	1/16W 0	2	MAIN P.C.B.
W506	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W507	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W507	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W508-12	ERJ3GEY0R00V	1/16W 0	5	MAIN P.C.B.
W512	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W513	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W513	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W514	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W514	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W515	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W515	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W516	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W516	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W517	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W517	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W518	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W518	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W519	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W519	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W520,21	ERJ3GEY0R00V	1/16W 0	2	MAIN P.C.B.
W521	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W522	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W522	ERJ6GEY0R00V	1/10W 0	1	VIF DECODER P.C.B.
W523	ERJ3GEY0R00V	1/16W 0	1	MAIN P.C.B.
W523	ERJ3GEY0R00V	1/16W 0	1	VIF DECODER P.C.B.
W524-27	ERJ3GEY0R00V	1/16W 0	4	
X0701	VLF1159	FILTER	1	EFCKM3561MV
X0702	EFCT4R5MS5W	FILTER	1	
X0703	EFCT3F03W3B	FILTER	1	EFCT3F03W5B
X3201	H1C2705B0009	CRYSTAL OSCILLATOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
X3401	H2D400500001	CRYSTAL OSCILLATOR	1	
X6001	H0J300500005	CRYSTAL OSCILLATOR	1	
X7501	H0A327200069	CRYSTAL OSCILLATOR	1	
X7502	H0H120500002	CRYSTAL OSCILLATOR	1	
X37001	H0J245500020	CRYSTAL OSCILLATOR	1	H0J245500025
Z002	ERZVGAD471	V.R.	1	
ZA7001	VJR0978	EARTH ANGLE	1	K9ZZ00000424
ZD001	MA8270	DIODE	1	
ZD002	RD56EB	DIODE	1	
ZD003,04	MA8300	DIODE	2	
ZD101	MA8039	DIODE	1	
ZD102	MA8027	DIODE	1	
ZD104	MA8051	DIODE	1	
ZD301,02	MAZ8051	DIODE	2	
ZD303,04	MA8051	DIODE	2	

19. Schematic Diagram for printing with A4



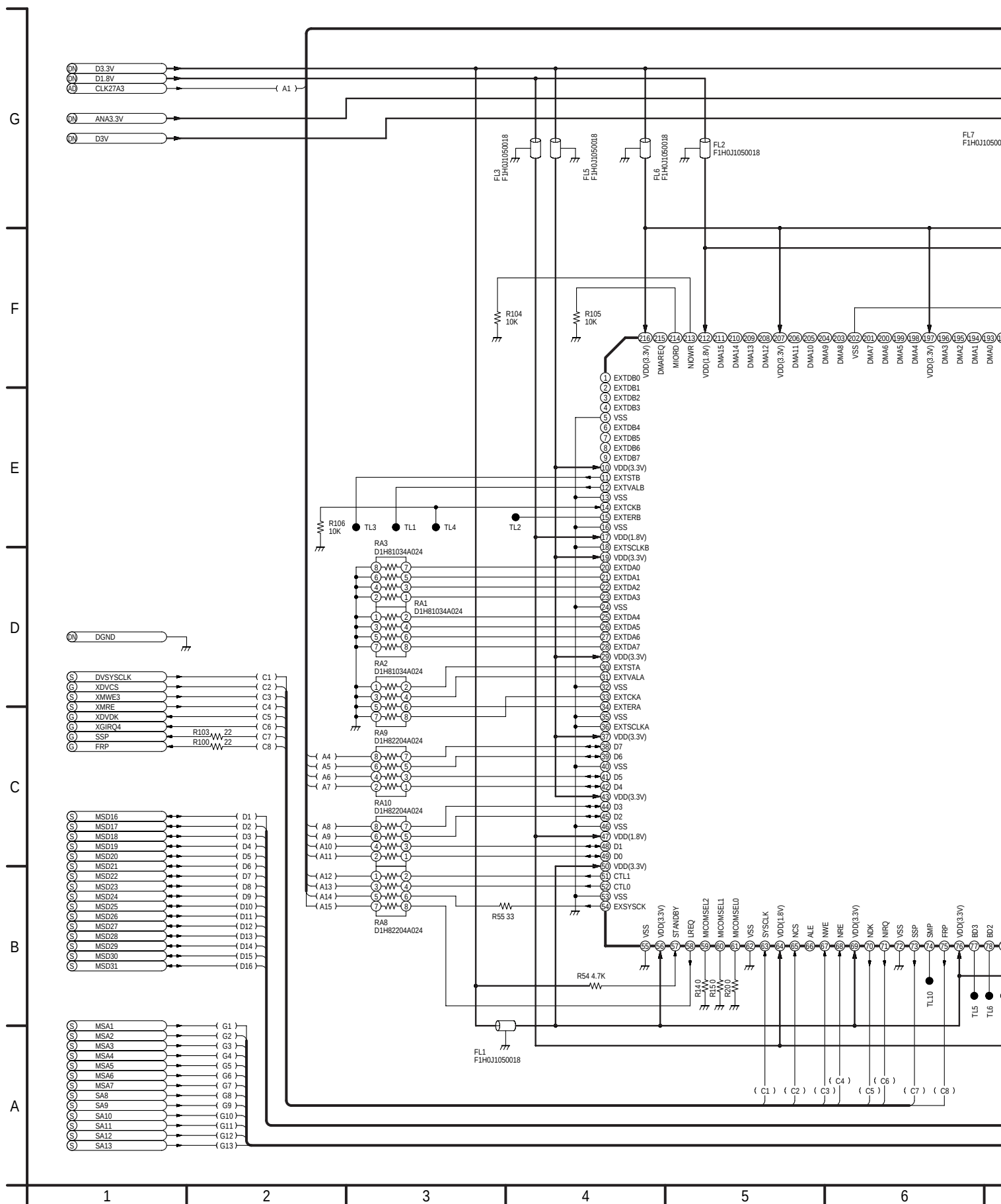


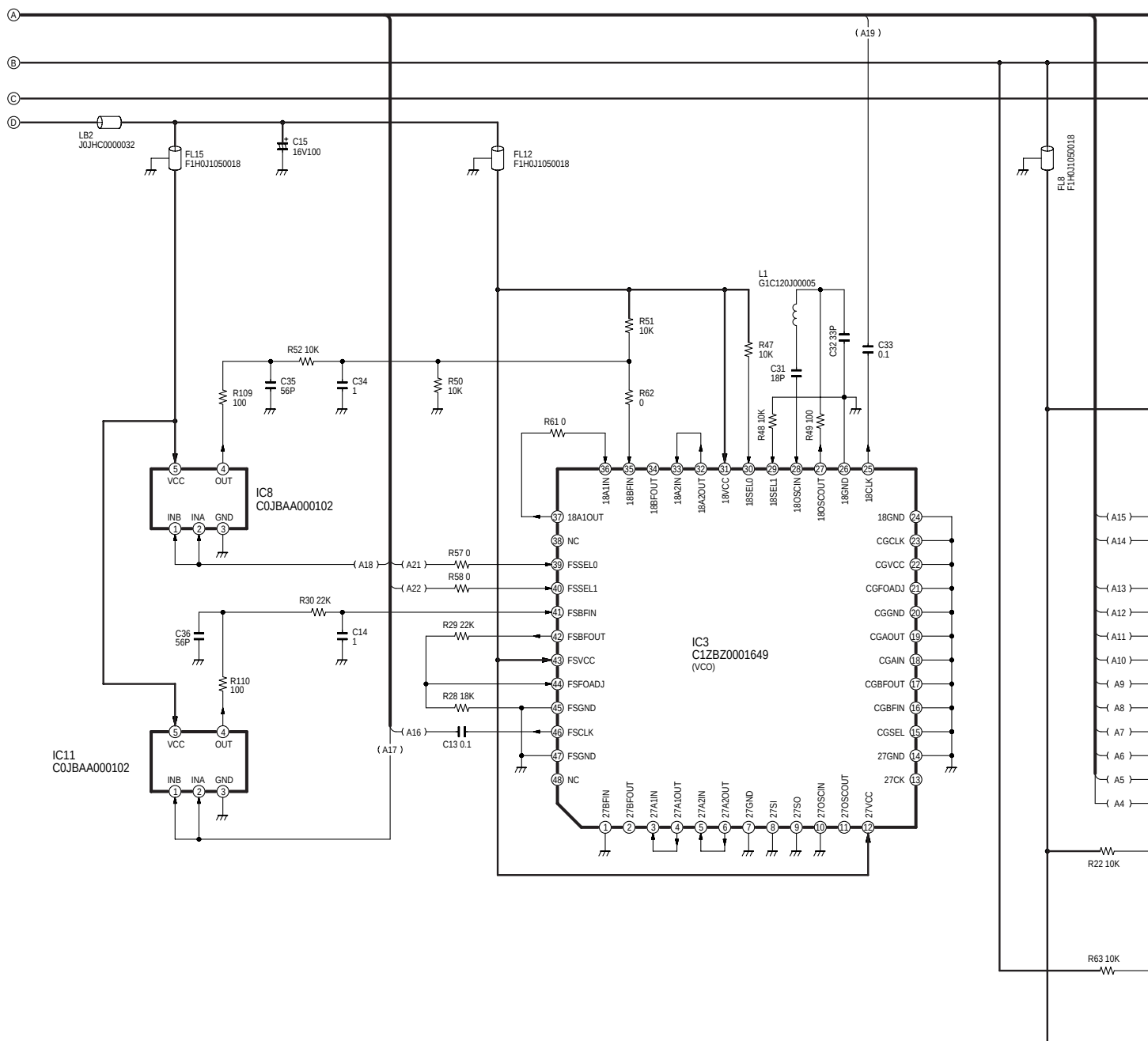
REF NO.6700 SERIES

DMR-HS2PP/T3040P
 Glue Section(Digital P.C.B.(6/7)) Schematic Diagram(G)

MC-Service

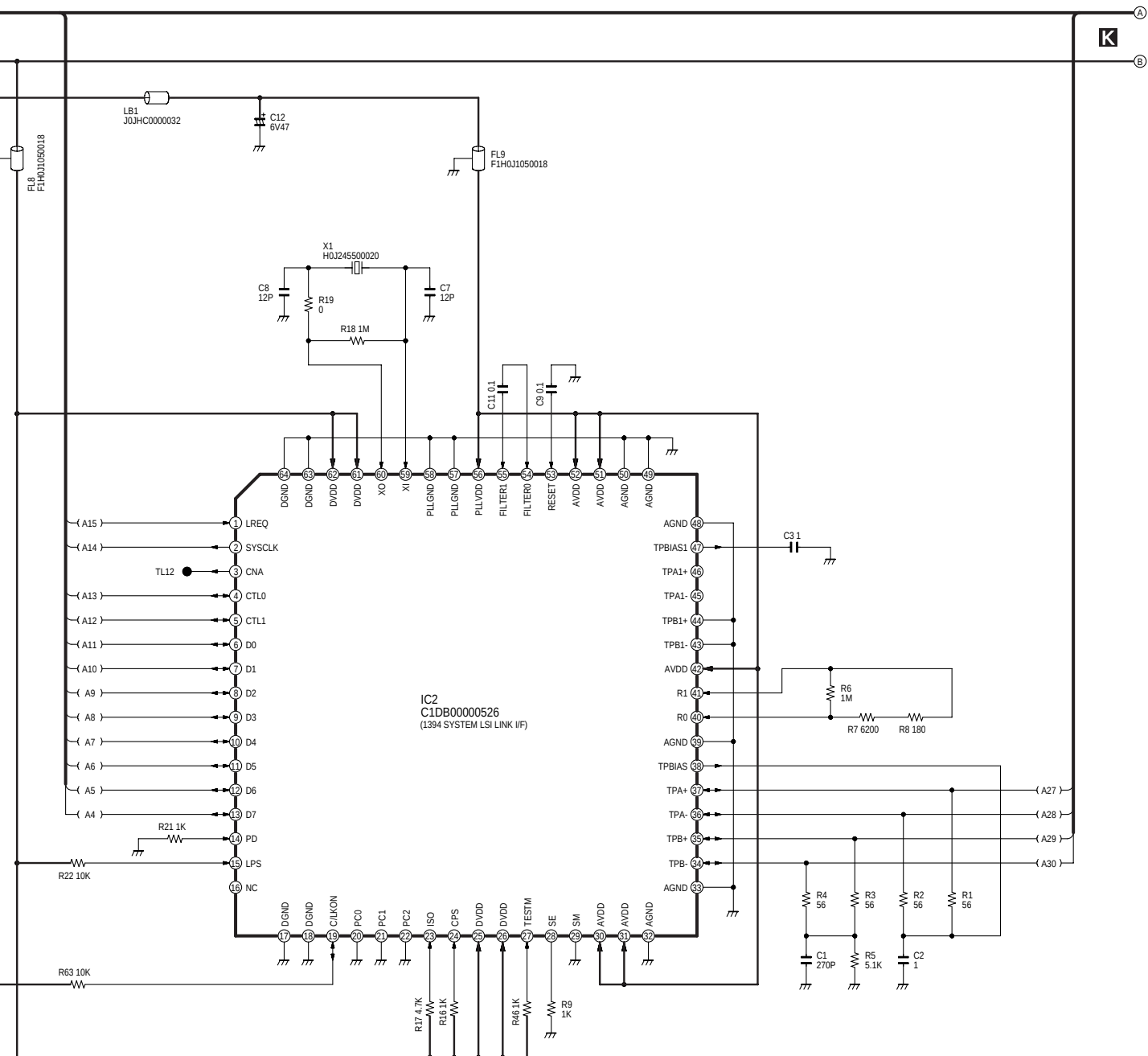
15.14. 1394 D/V Section (Digital P.C.B. (7/7)) Schematic Diagram (DV)





MC-Service

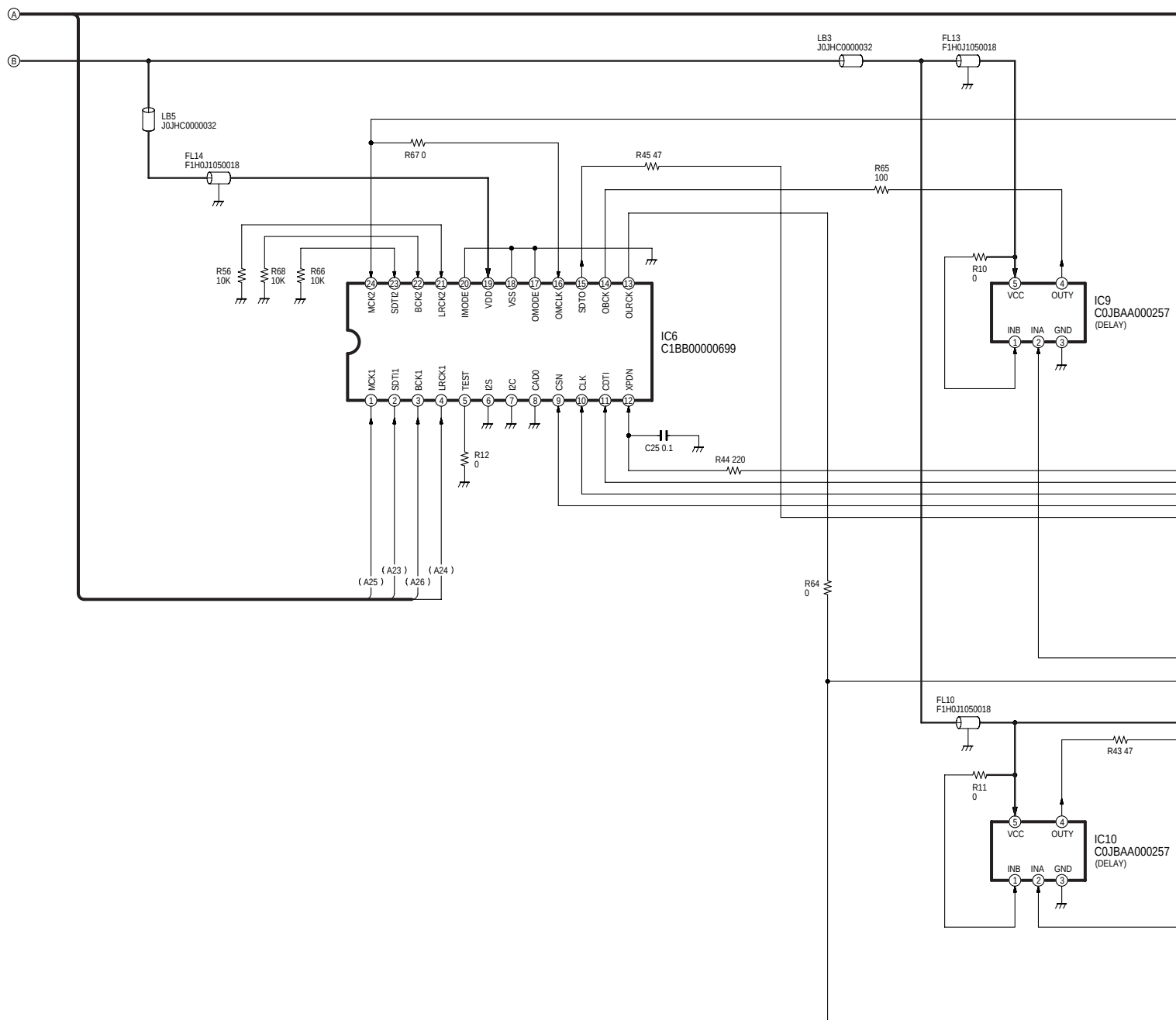
DMR-HS2PP/T3040P
1394 D/V Section(Digital P.C.B.(7/7)) Schematic Diagram(DV)



MC-Service

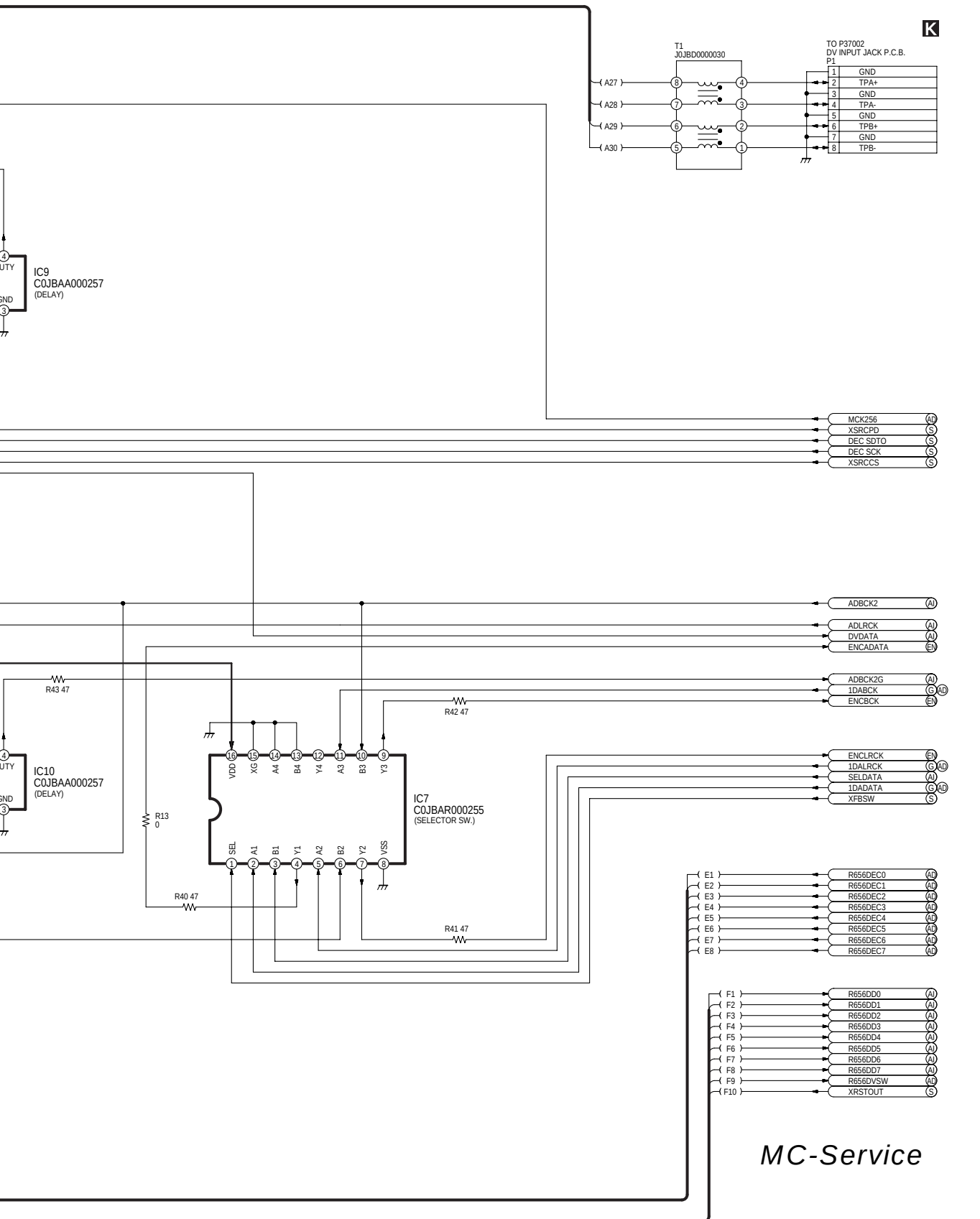
DMR-HS2PP/T3040P
1394 D/V Section(Digital P.C.B.(7/7)) Schematic Diagram(DV)

17 18 19 20 21 22



DN: DIGITAL NET SECTION (Page: **E**)
 EN: AV ENCODER SECTION (Page: **F**)
 AD: AV DECODER SECTION (Page: **G**)
 AI: AV INPUT SECTION (Page: **H**)
 S: SYSTEM CONTROL SECTION (Page: **I**)
 G: GLUE SECTION (Page: **J**)
 DV: 1394 D/V SECTION (Page: **K**)

MC-Service



MC-Service

REF NO.37000 SERIES DMR-HS2PP/T3040P 1394 D/V Section(Digital P.C.B.(7/7)) Schematic Diagram(DV)

28

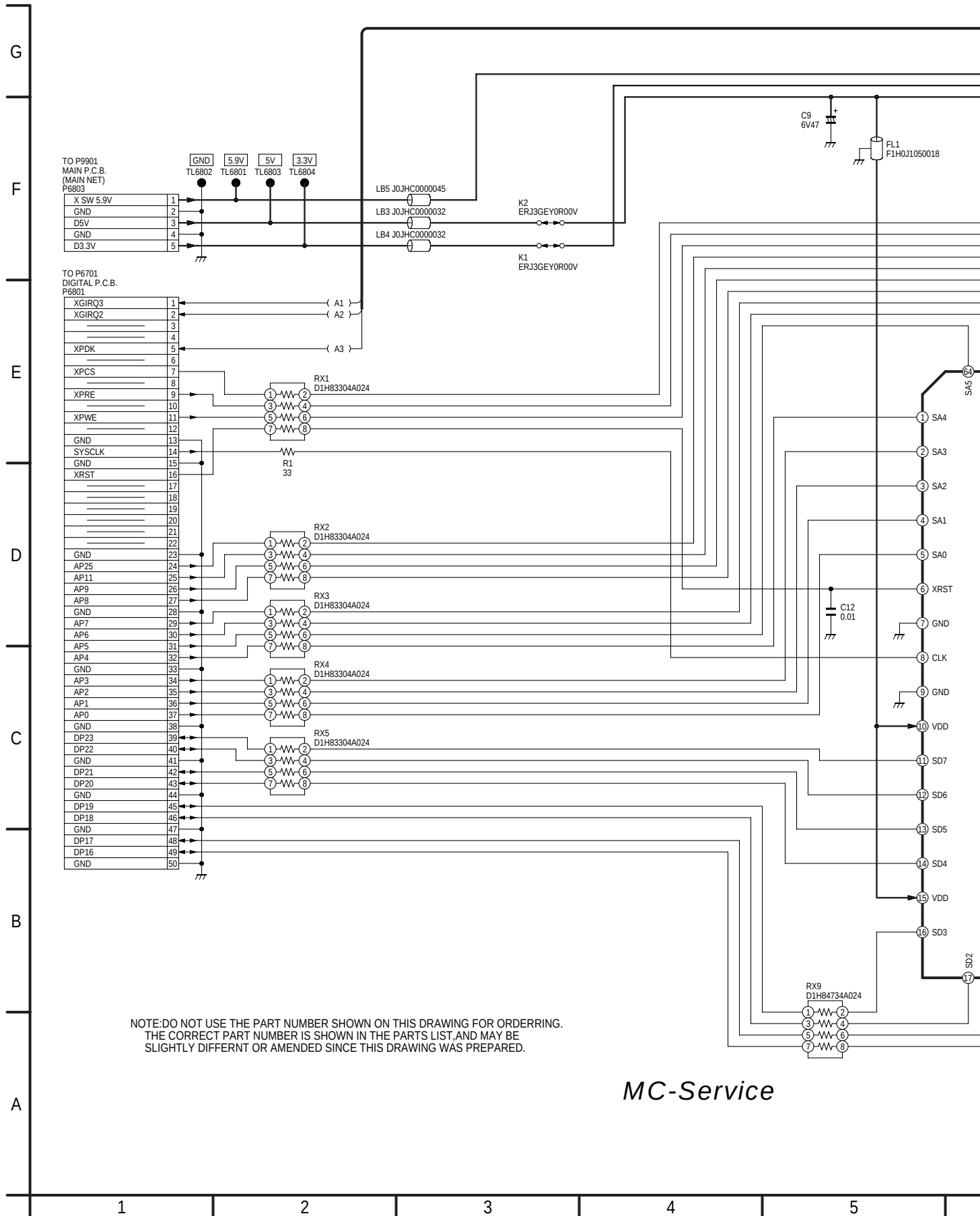
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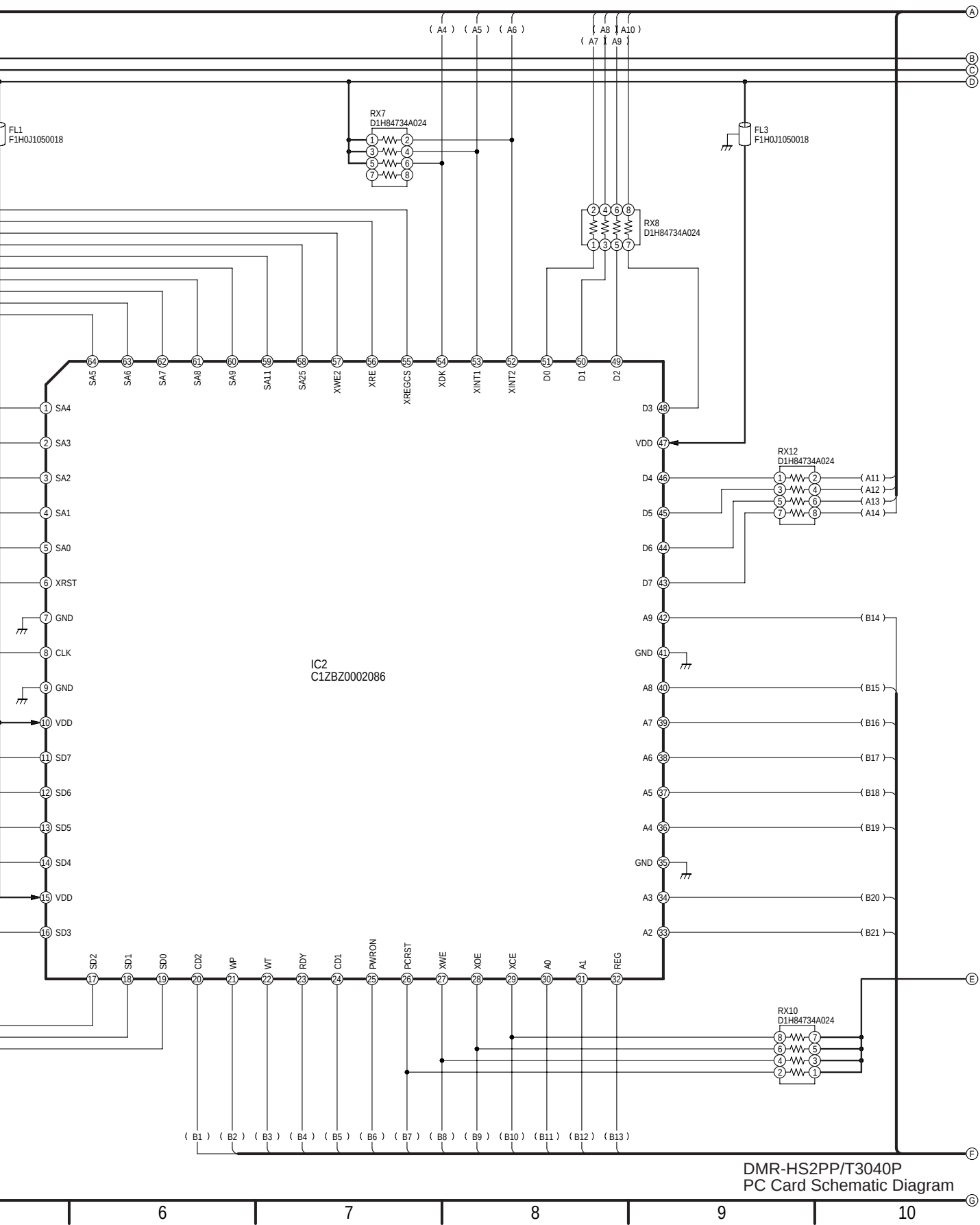
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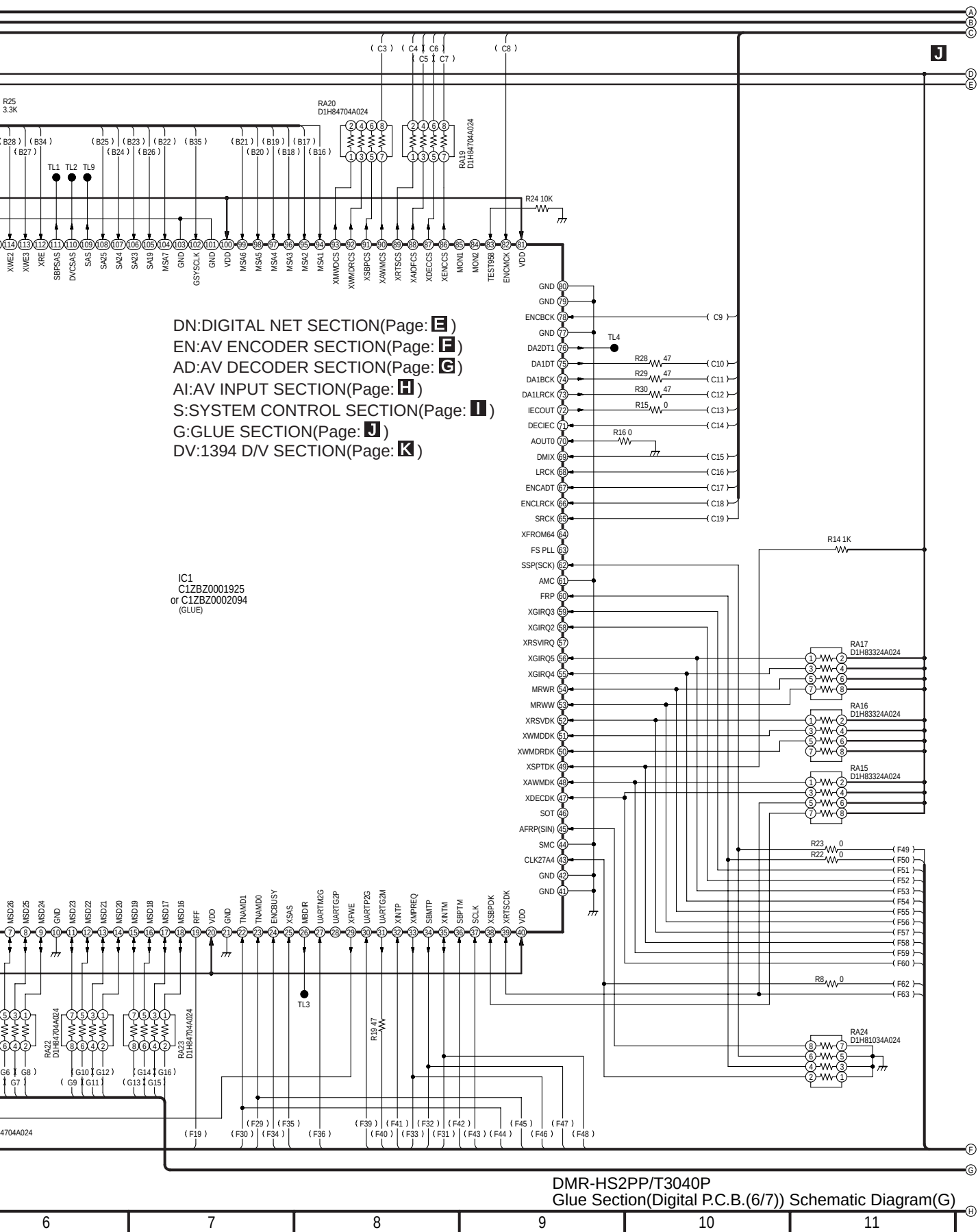
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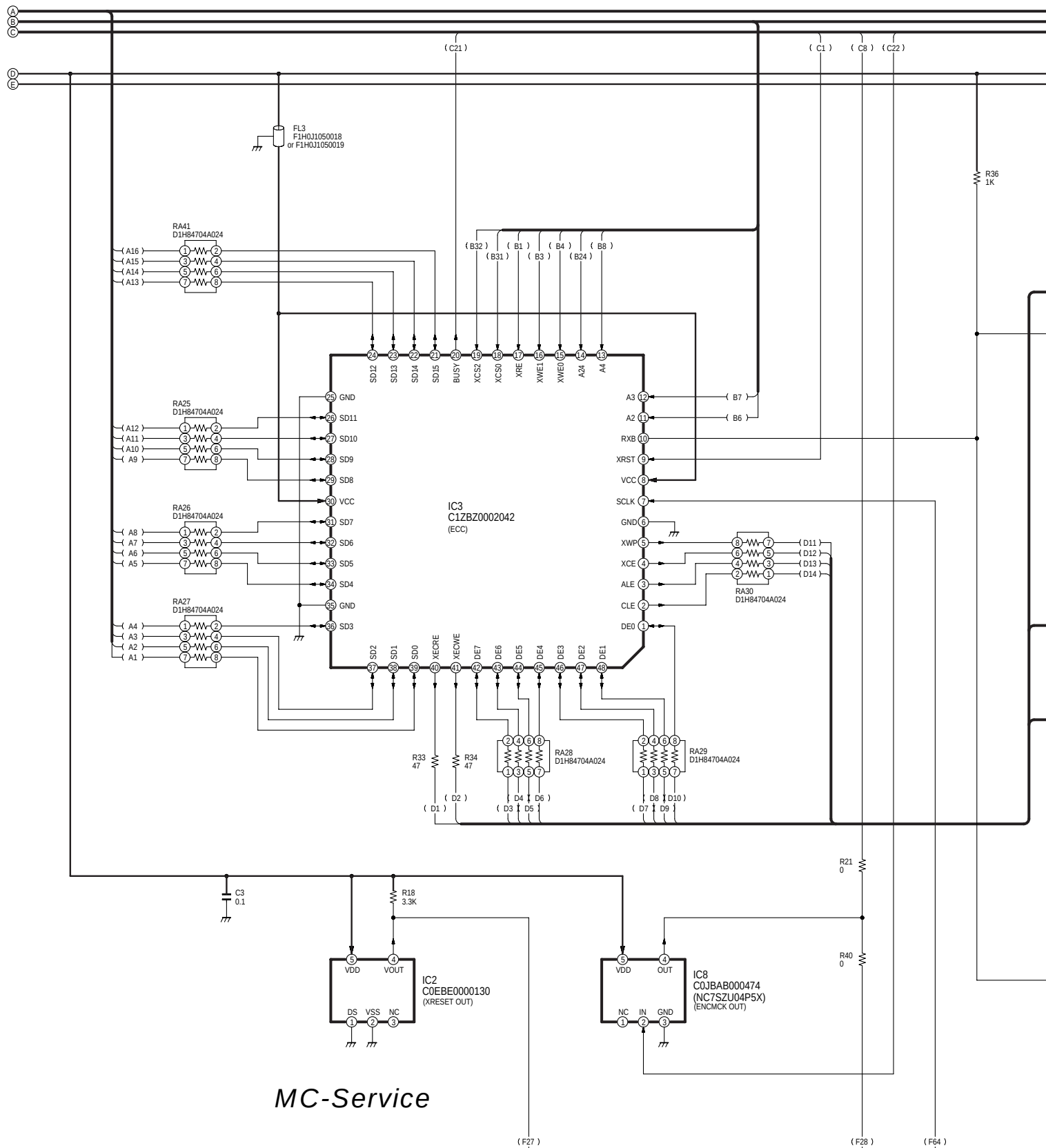
15.15. PC Card Schematic Diagram



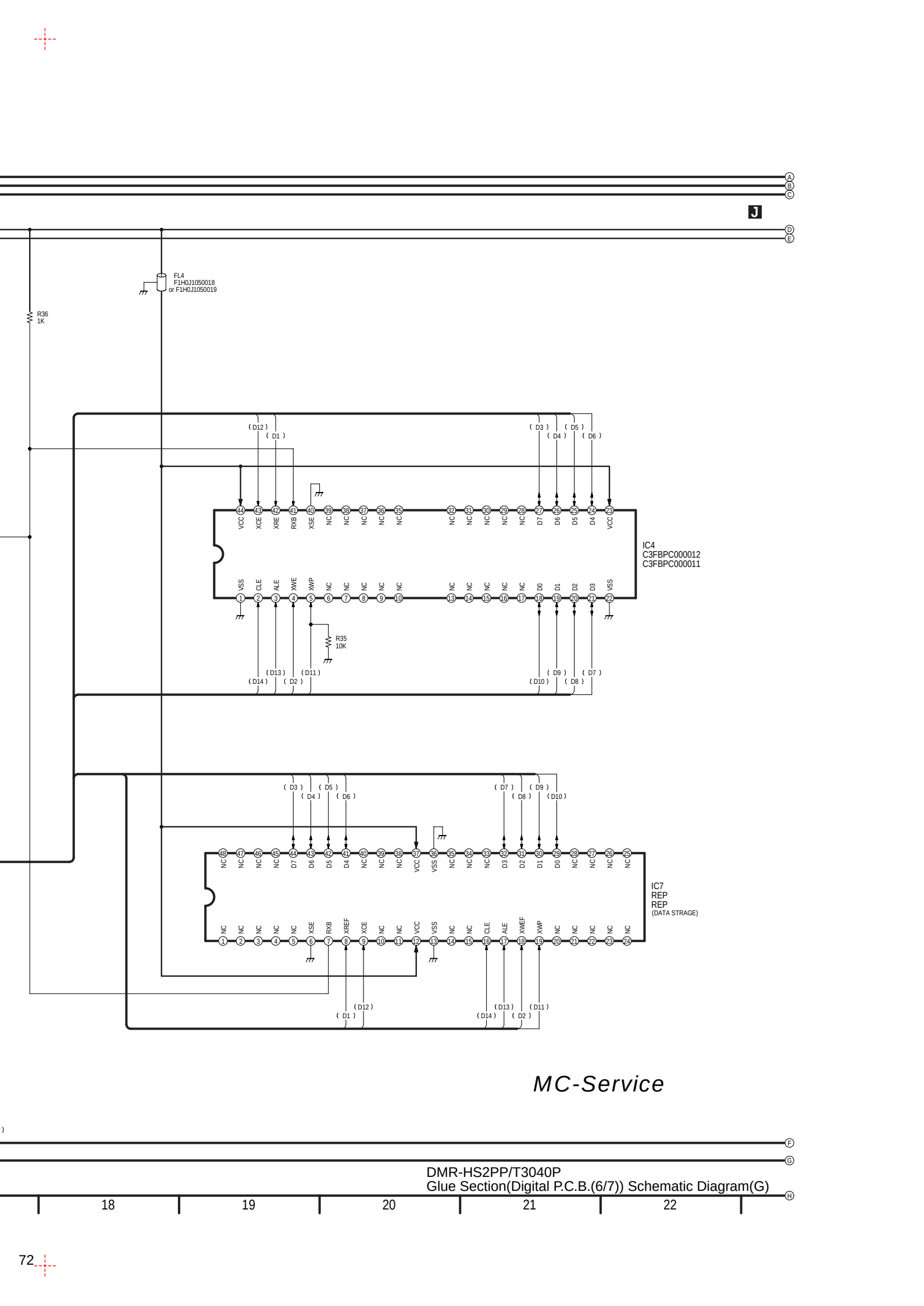






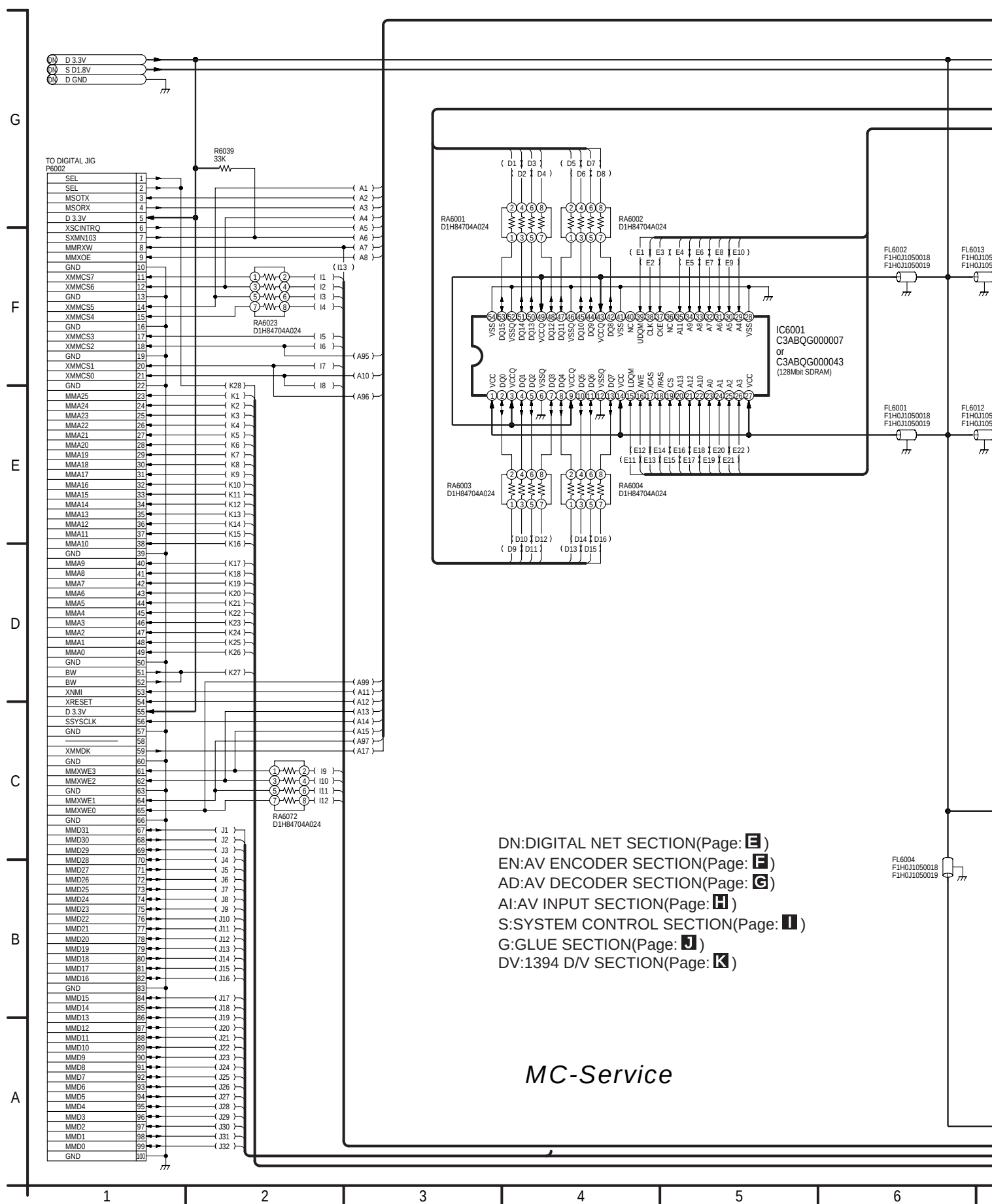


DMR-HS2PP/T3040P
Glue Section(Digital P.C.B.(6/7)) Schematic Diagram(G)

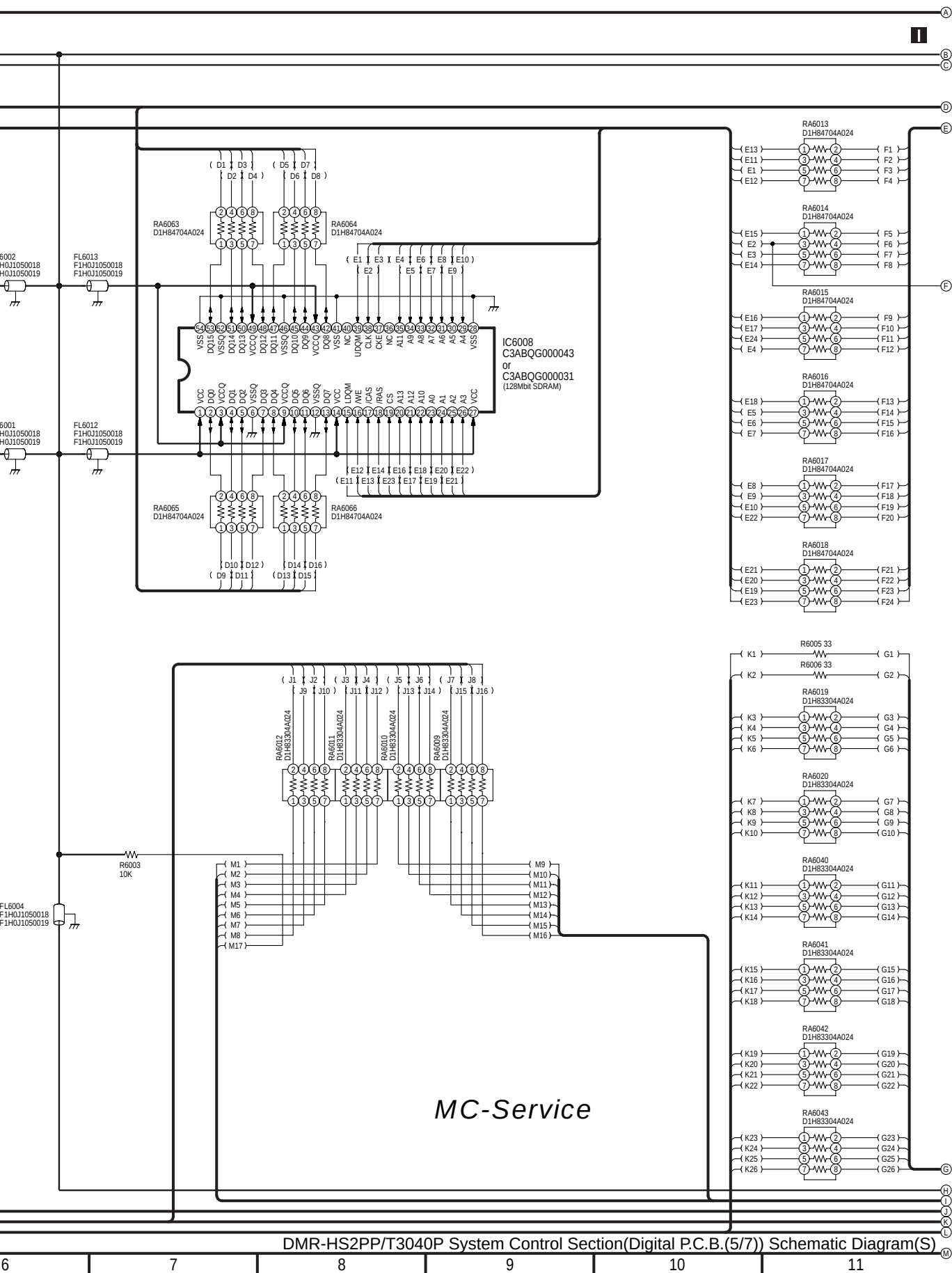


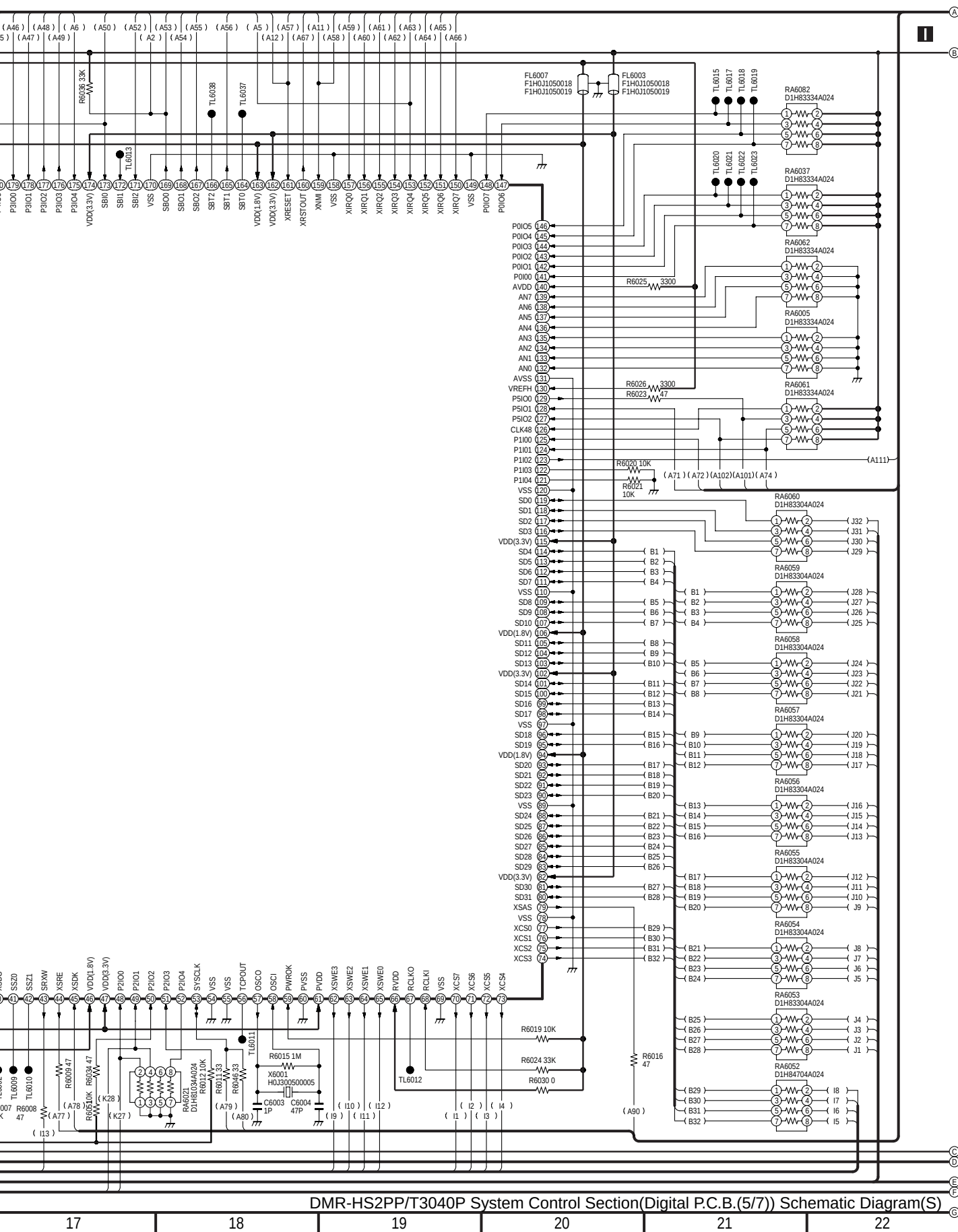
MC-Service

15.12. System Control Section (Digital P.C.B. (5/7)) Schematic Diagram (S)

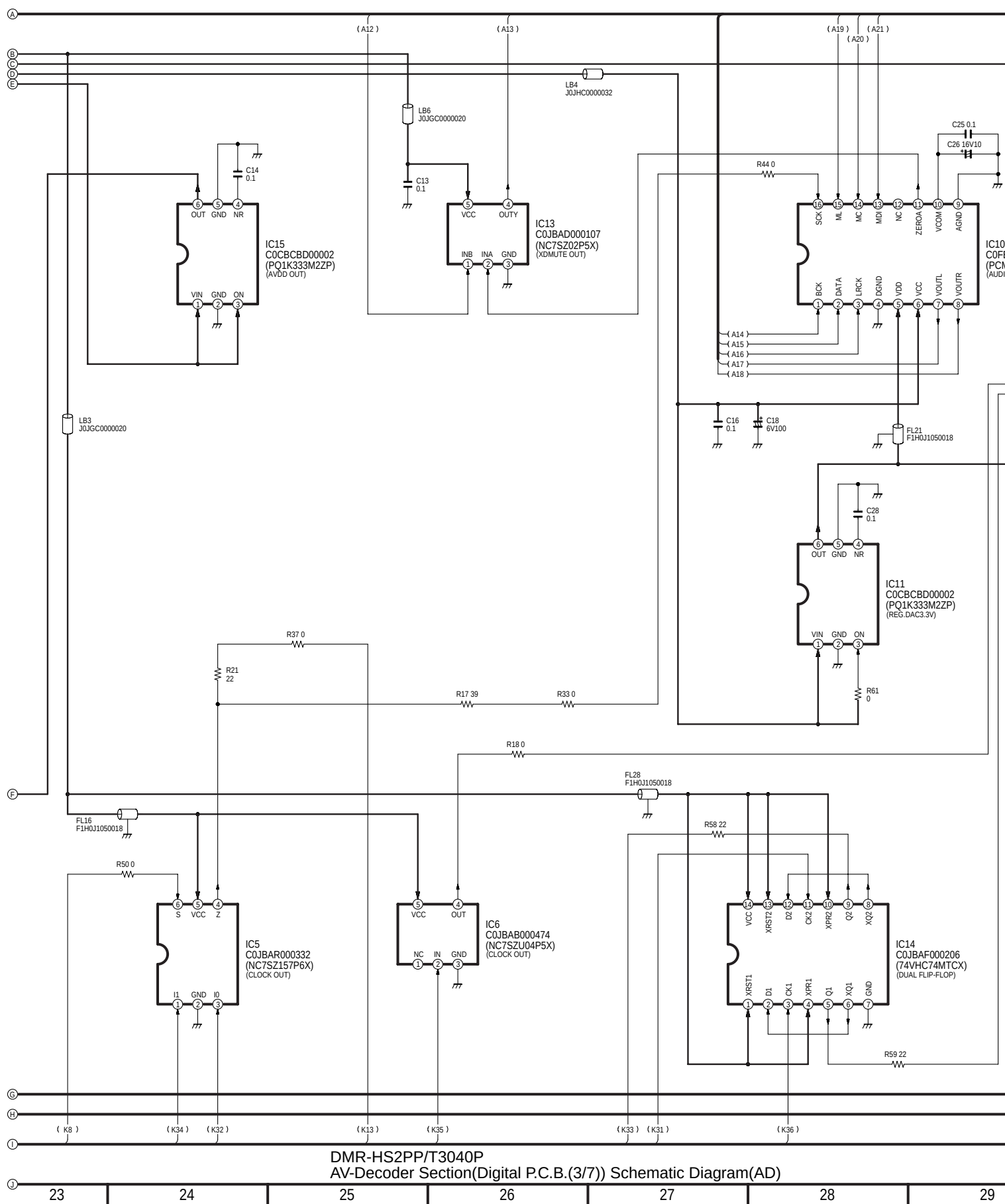


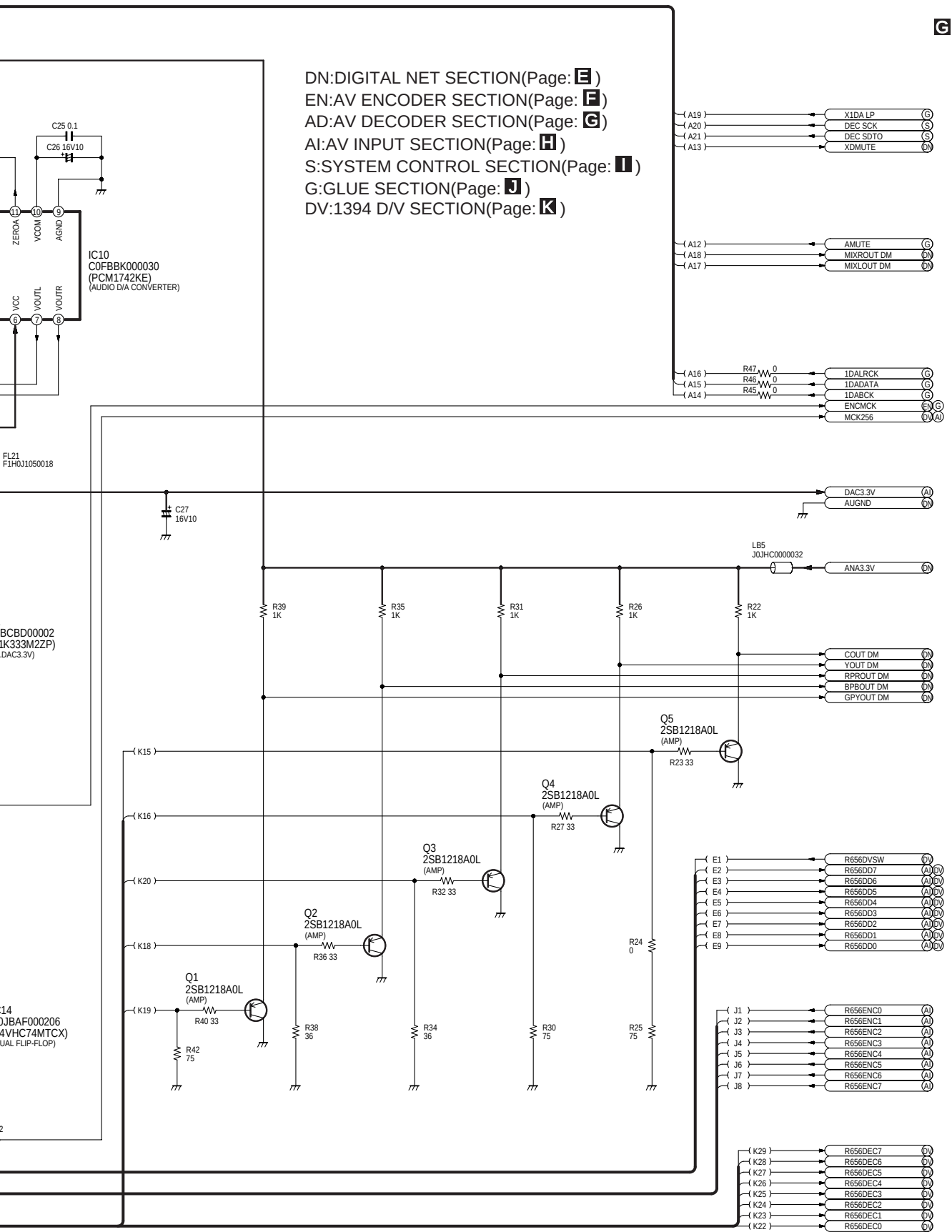
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 AD: AV DECODER SECTION (Page: **G**)
 AI: AV INPUT SECTION (Page: **H**)
 S: SYSTEM CONTROL SECTION (Page: **I**)
 G: GLUE SECTION (Page: **J**)
 DV: 1394 D/V SECTION (Page: **K**)





DMR-HS2PP/T3040P System Control Section(Digital P.C.B.(5/7)) Schematic Diagram(S)





REF NO. 50000 SERIES

DMR-HS2PP/T3040P

AV-Decoder Section(Digital P.C.B.(3/7)) Schematic Diagram(AD)

29

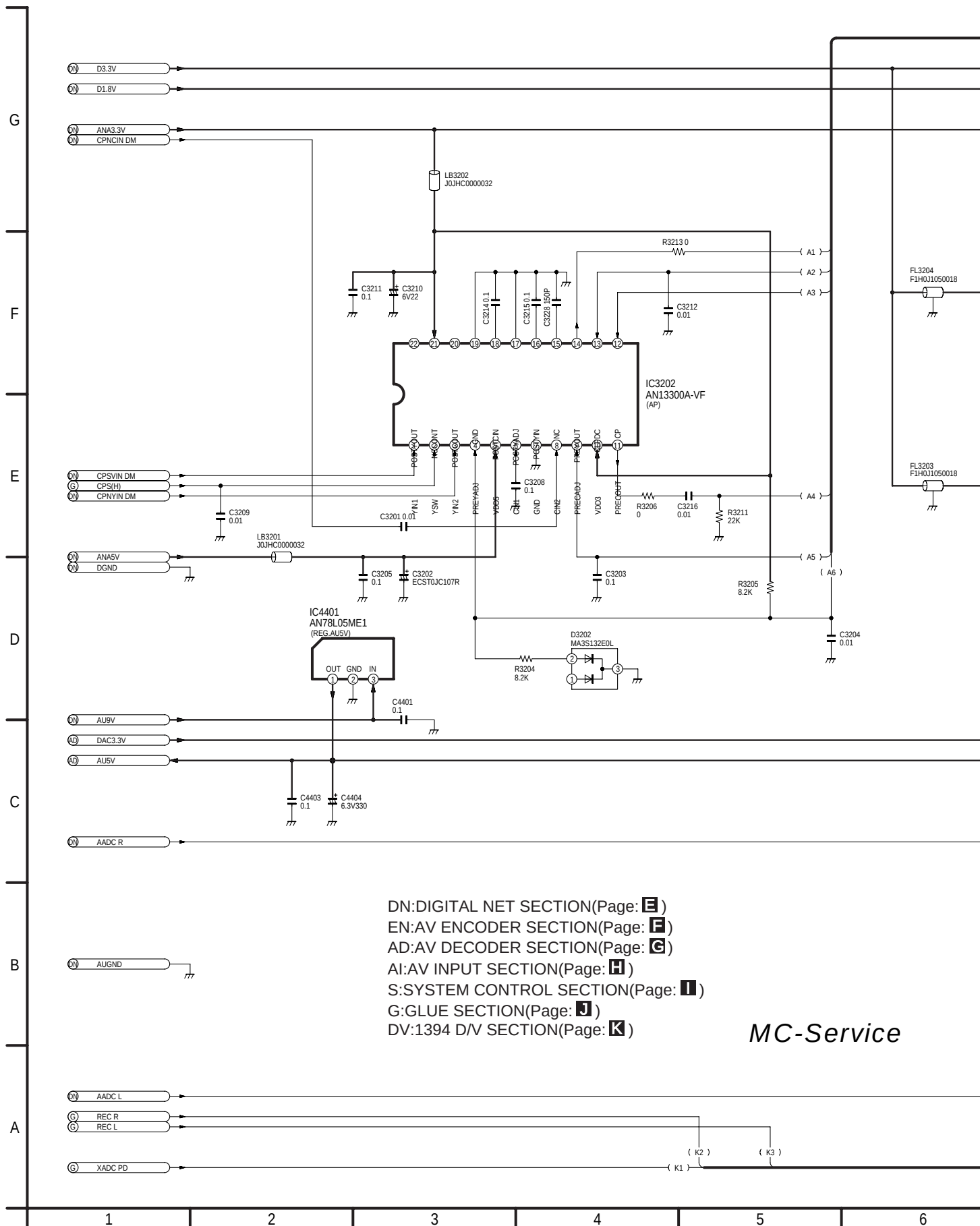
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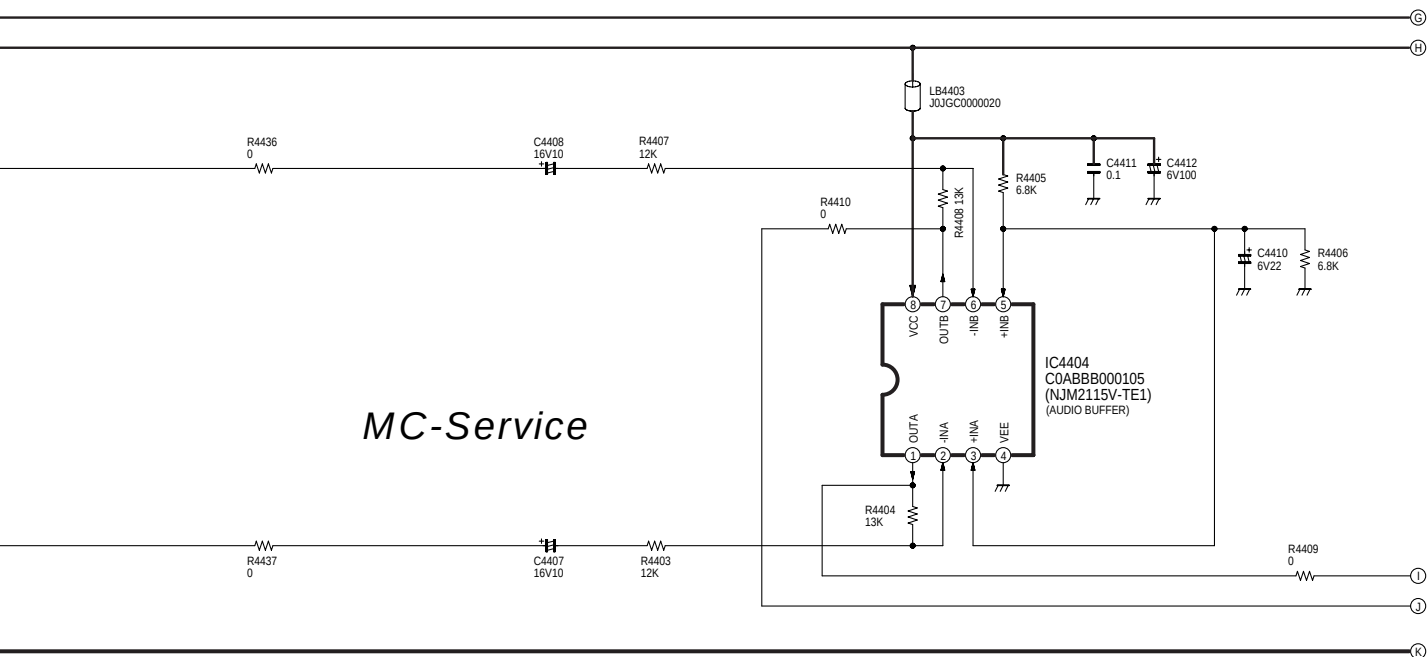
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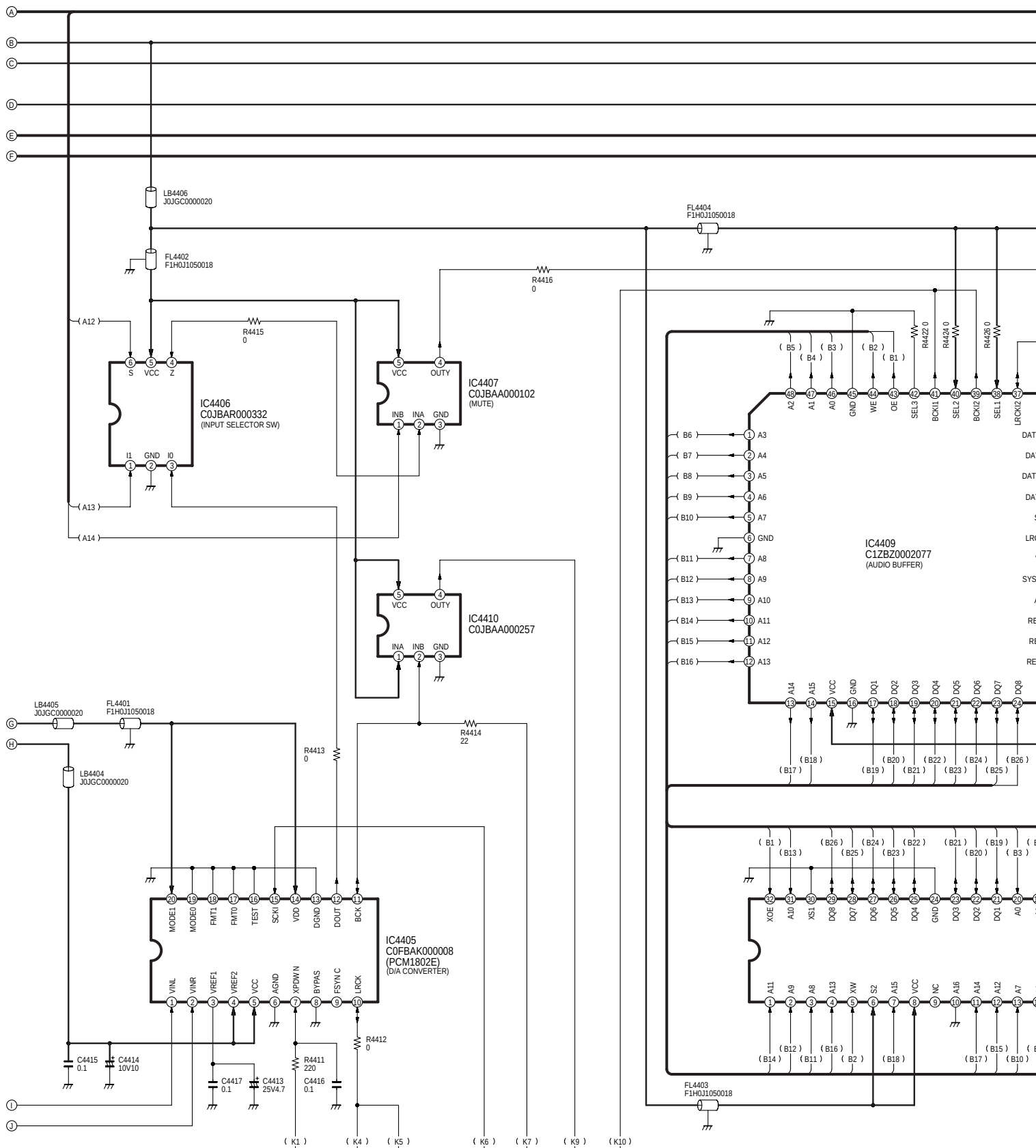
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15.11. AV-Input Section (Digital P.C.B. (4/7)) Schematic Diagram (AI)

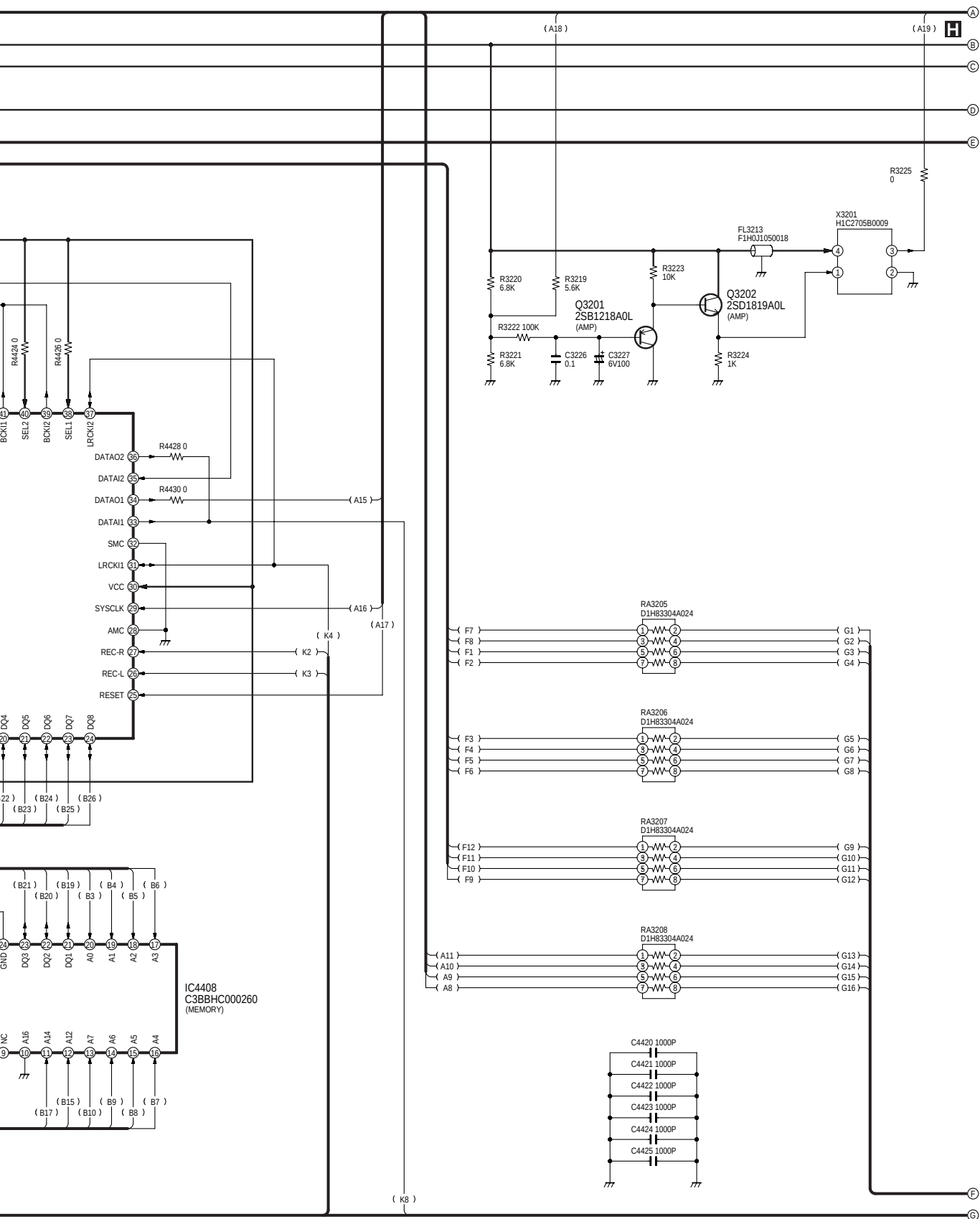


MC-Service

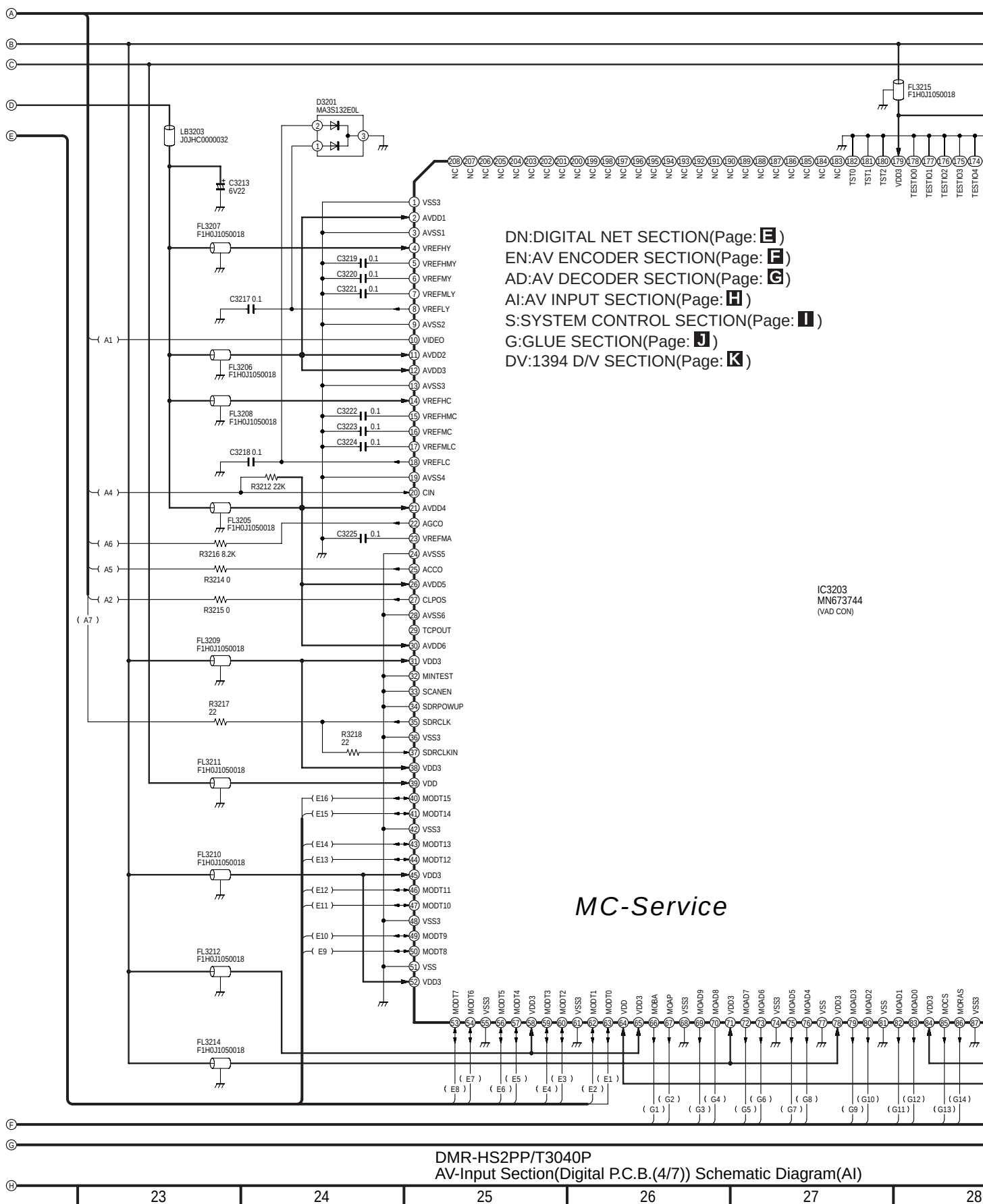


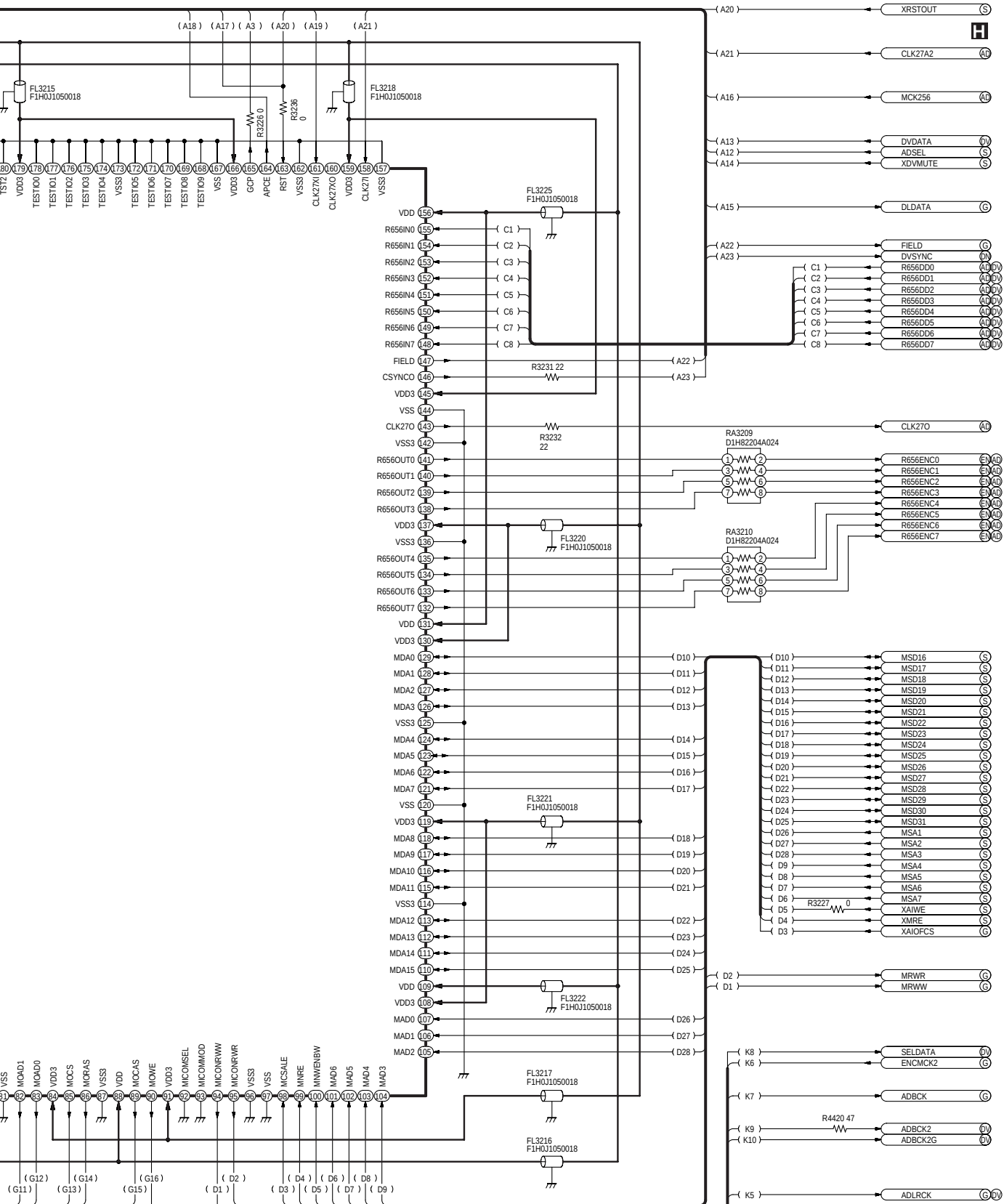


DMR-HS2PP/T3040P
AV-Input Section(Digital P.C.B.(4/7)) Schematic Diagram(AI)

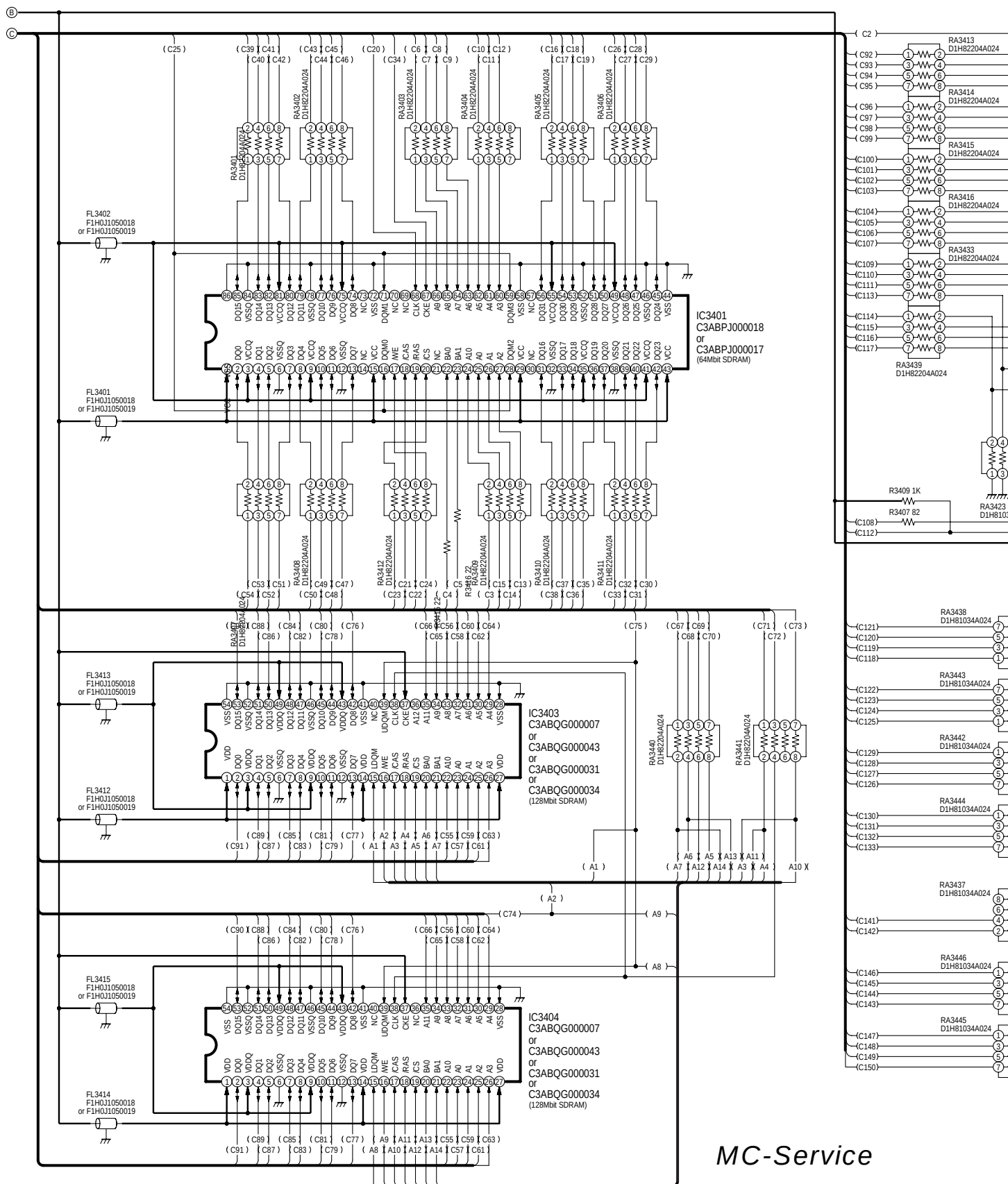


DMR-HS2PP/T3040P
AV-Input Section(Digital P.C.B.(4/7)) Schematic Diagram(AI)

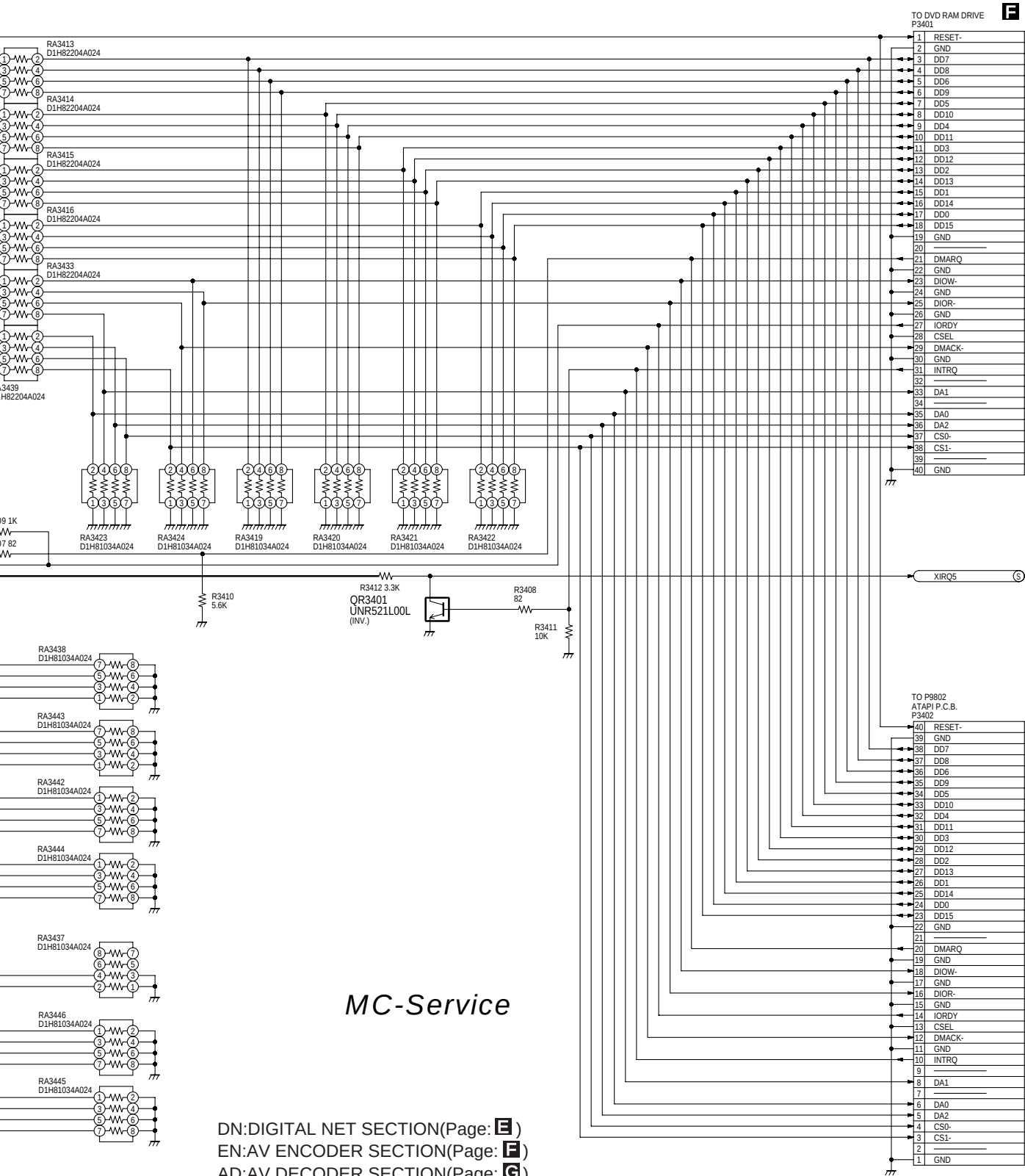




DMR-HS2PP/T3040P
AV-Input Section(Digital P.C.B.(4/7)) Schematic Diagram(AI)



DMR-HS2PP/T3040P AV-Encoder Section(Digital P.C.B.(2/7)) Schematic Diagram(EN)

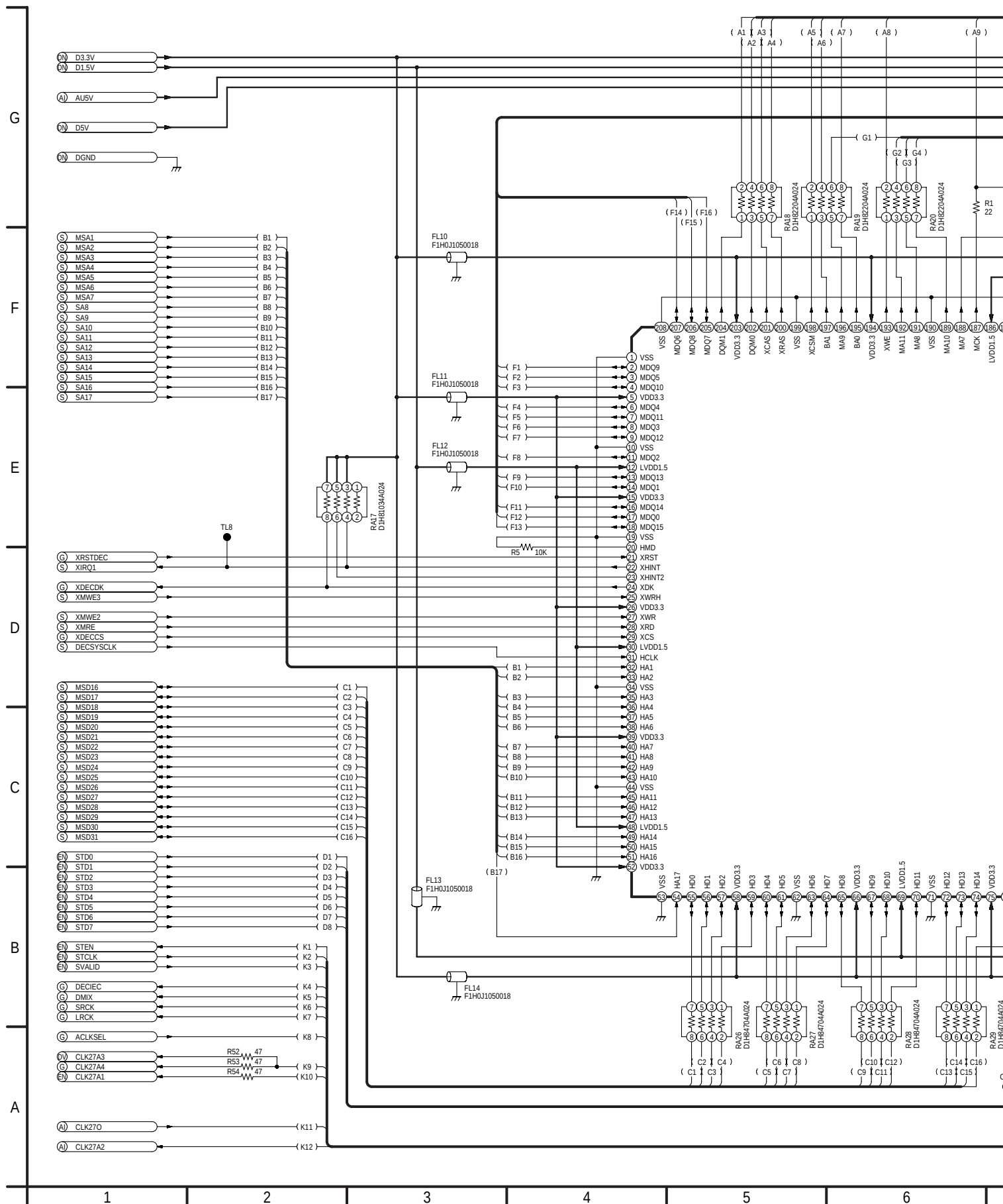


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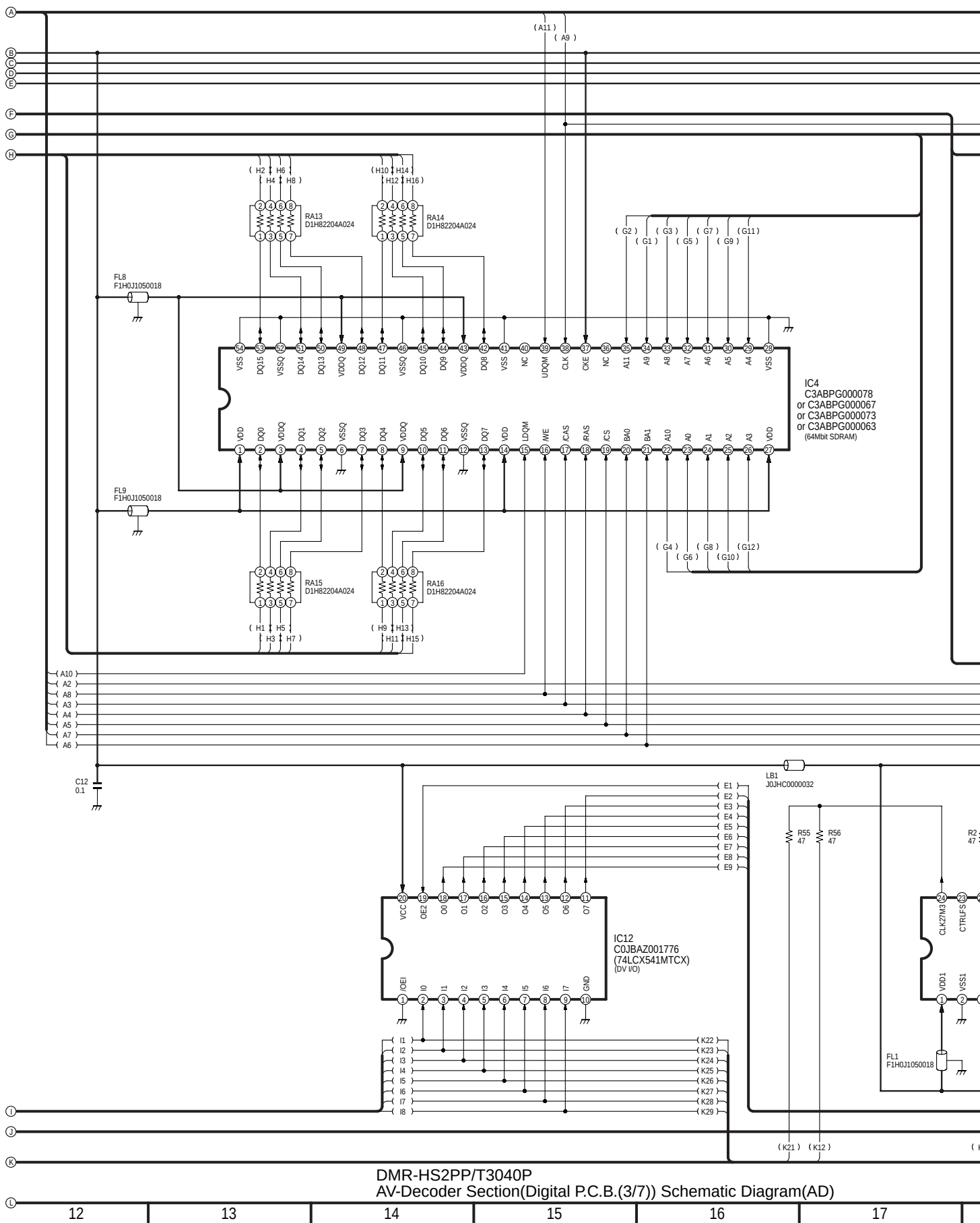
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 EN: AV ENCODER SECTION (Page: **F**)
 AD: AV DECODER SECTION (Page: **G**)
 AI: AV INPUT SECTION (Page: **H**)
 S: SYSTEM CONTROL SECTION (Page: **I**)
 G: GLUE SECTION (Page: **J**)
 DV: 1394 D/V SECTION (Page: **K**)

DMR-HS2PP/T3040P
 AV-Encoder Section (Digital P.C.B. (2/7))
 Schematic Diagram (EN)

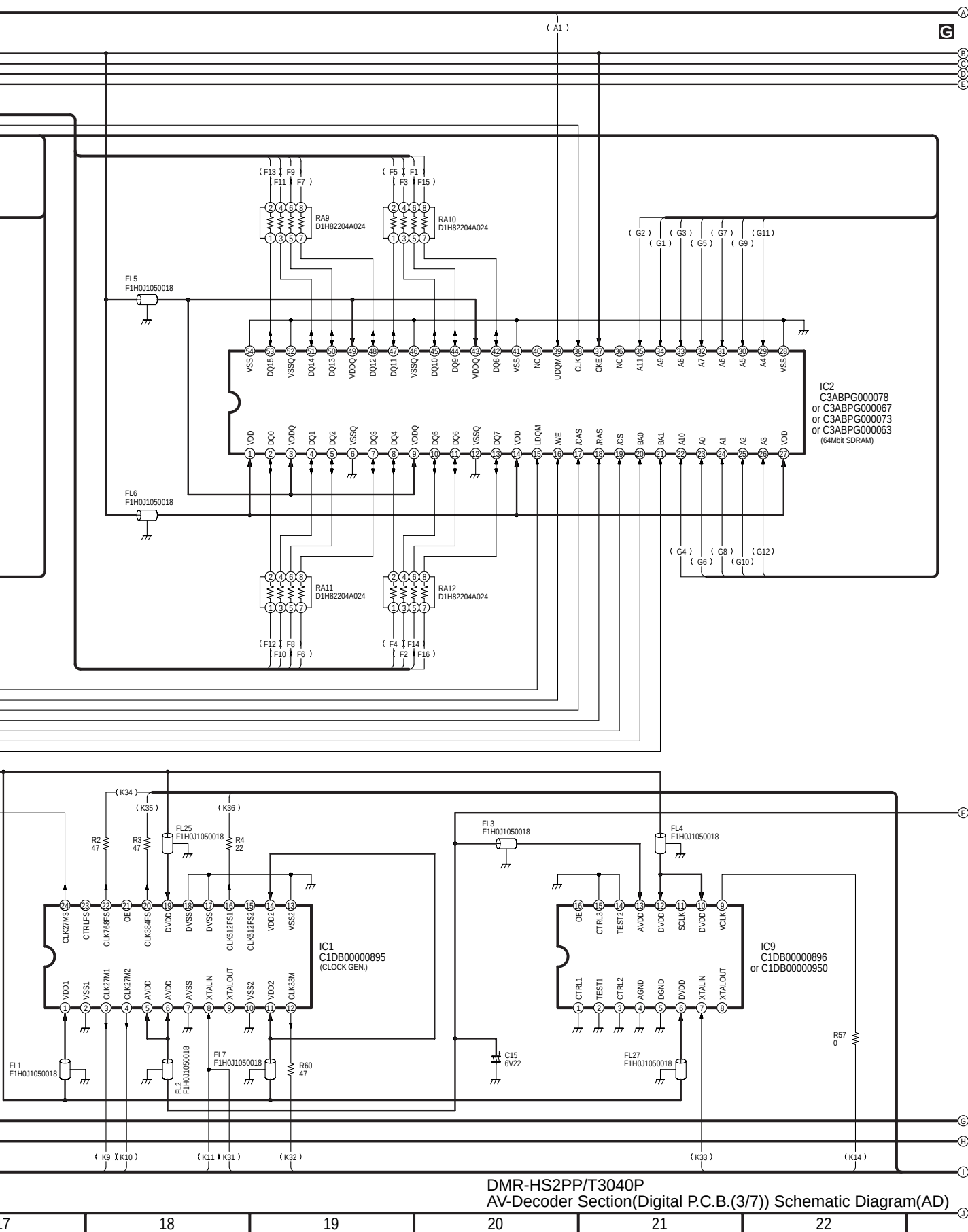
15.10. AV-Decoder Section (Digital P.C.B. (3/7)) Schematic Diagram (AD)





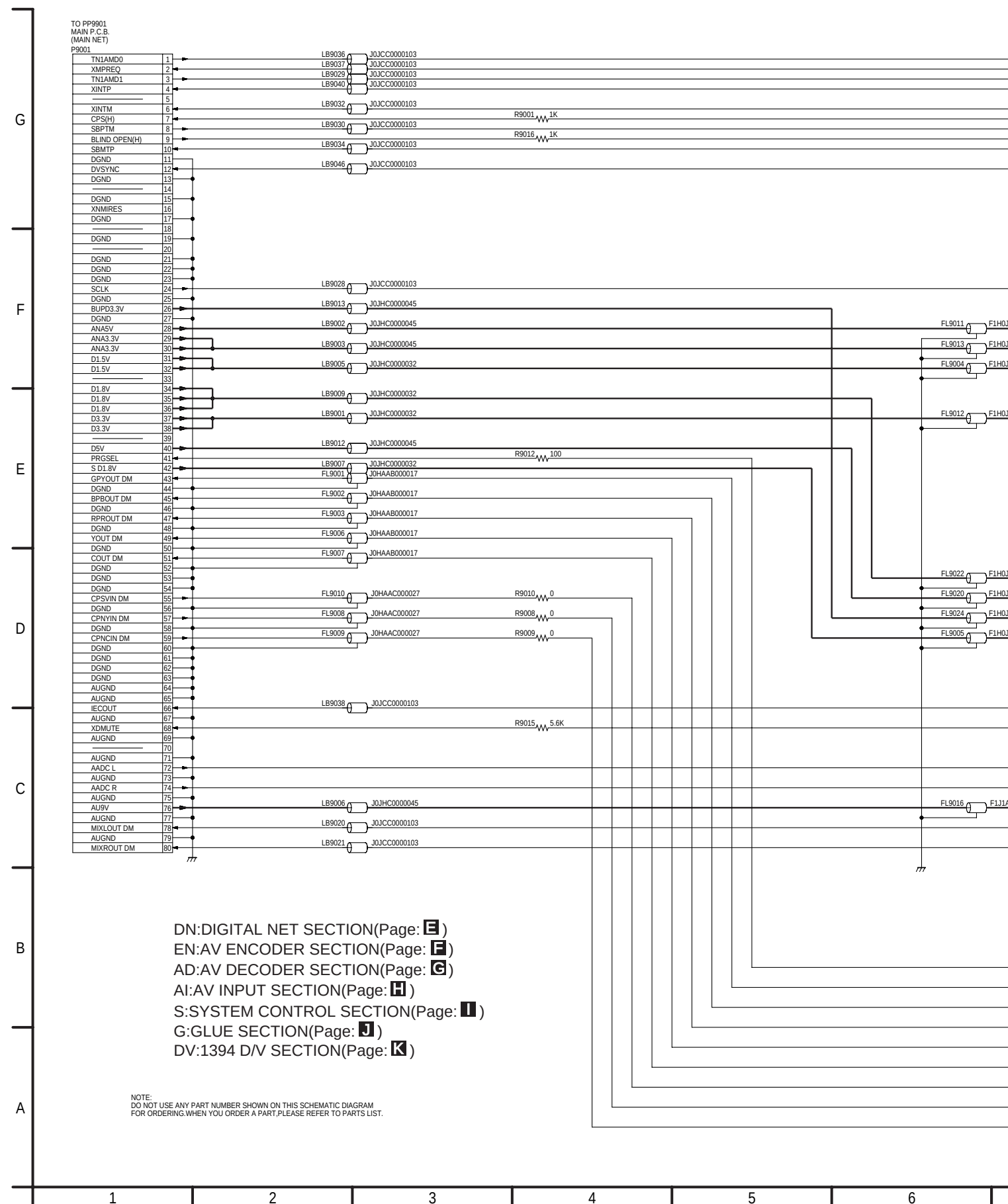


DMR-HS2PPT/3040P
AV-Decoder Section(Digital P.C.B.(3/7)) Schematic Diagram(AD)

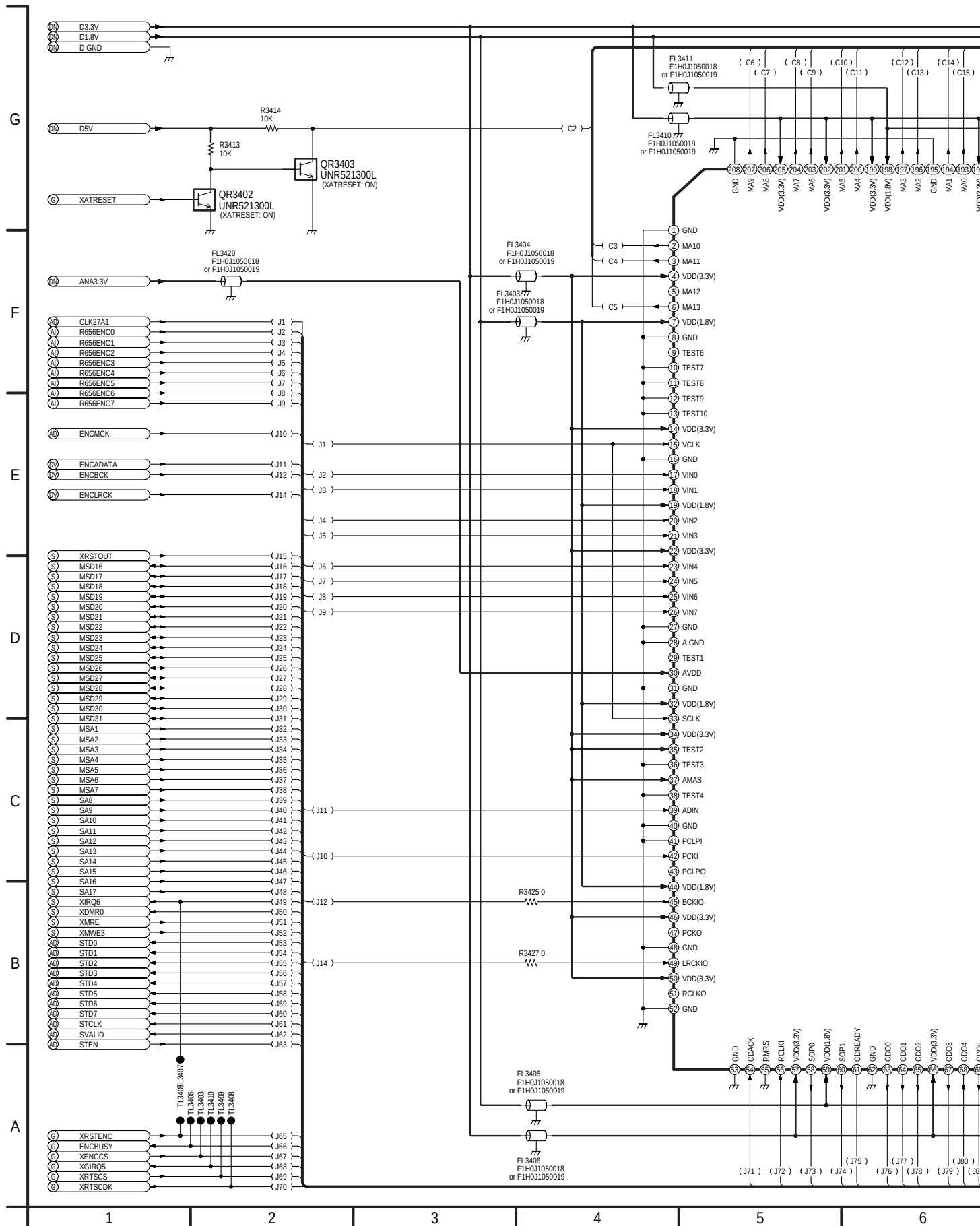


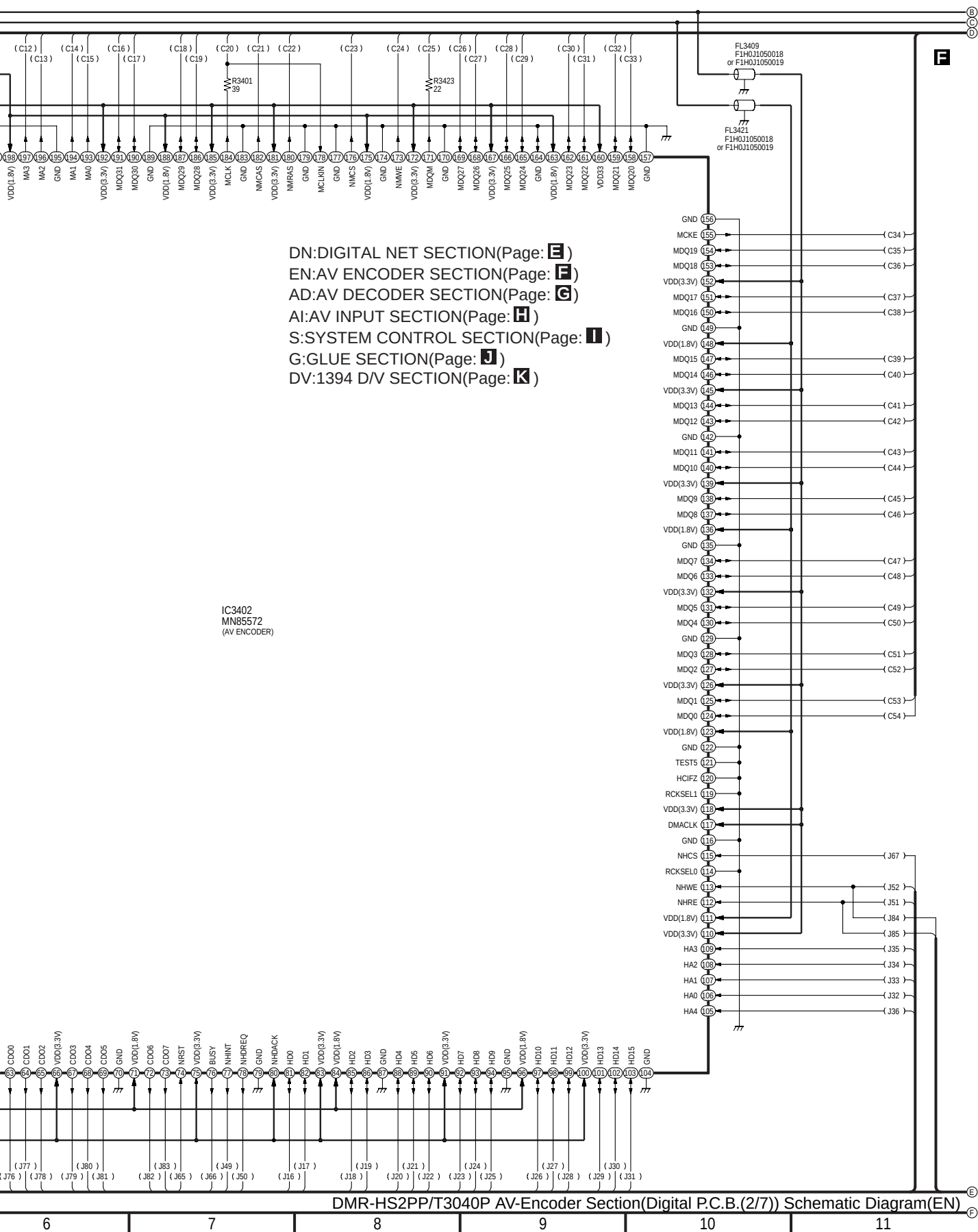
DMR-HS2PP/T3040P
AV-Decoder Section(Digital P.C.B.(3/7)) Schematic Diagram(AD)

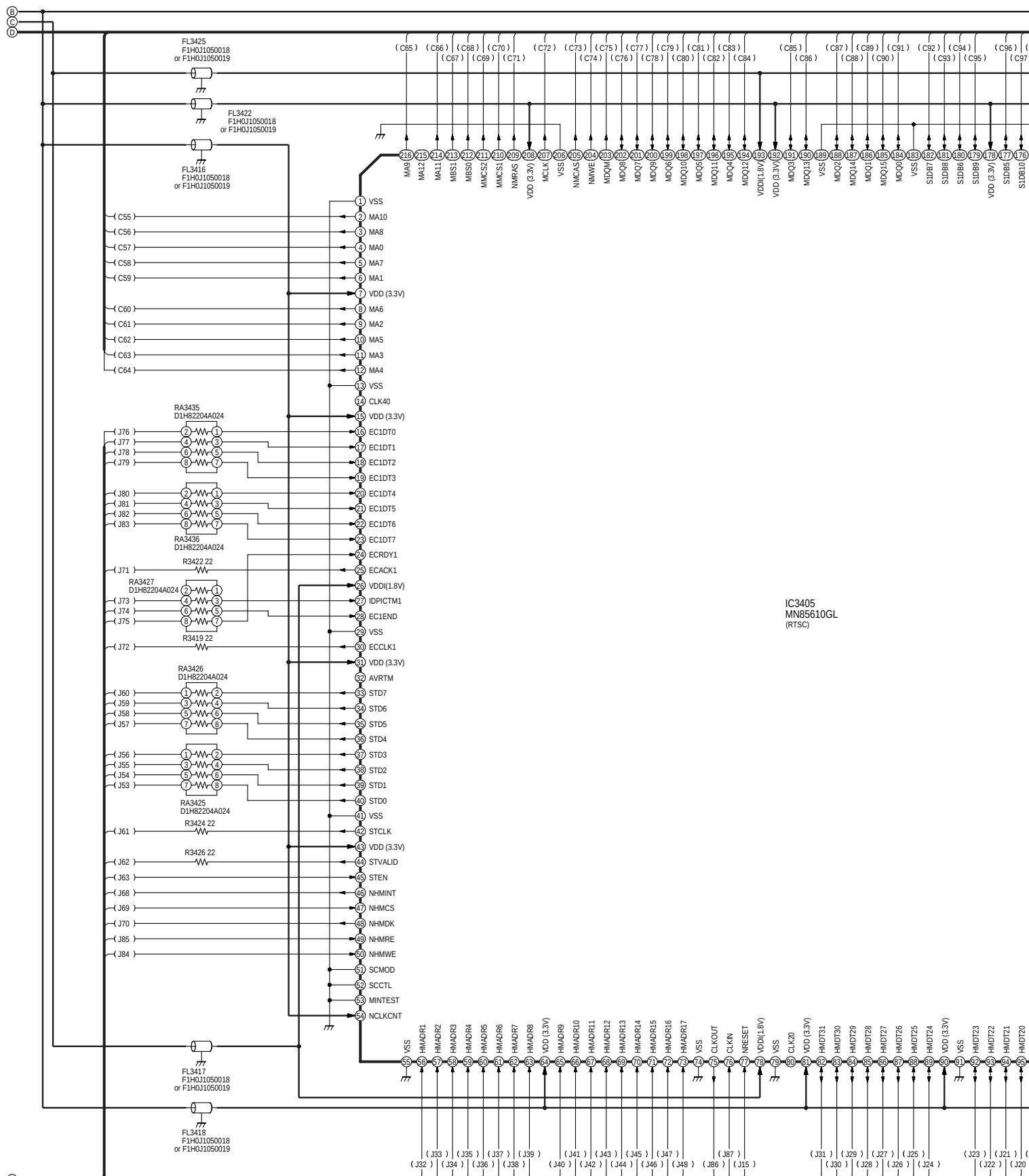
15.8. Digital Net Section (Digital P.C.B. (1/7)) Schematic Diagram (DN)



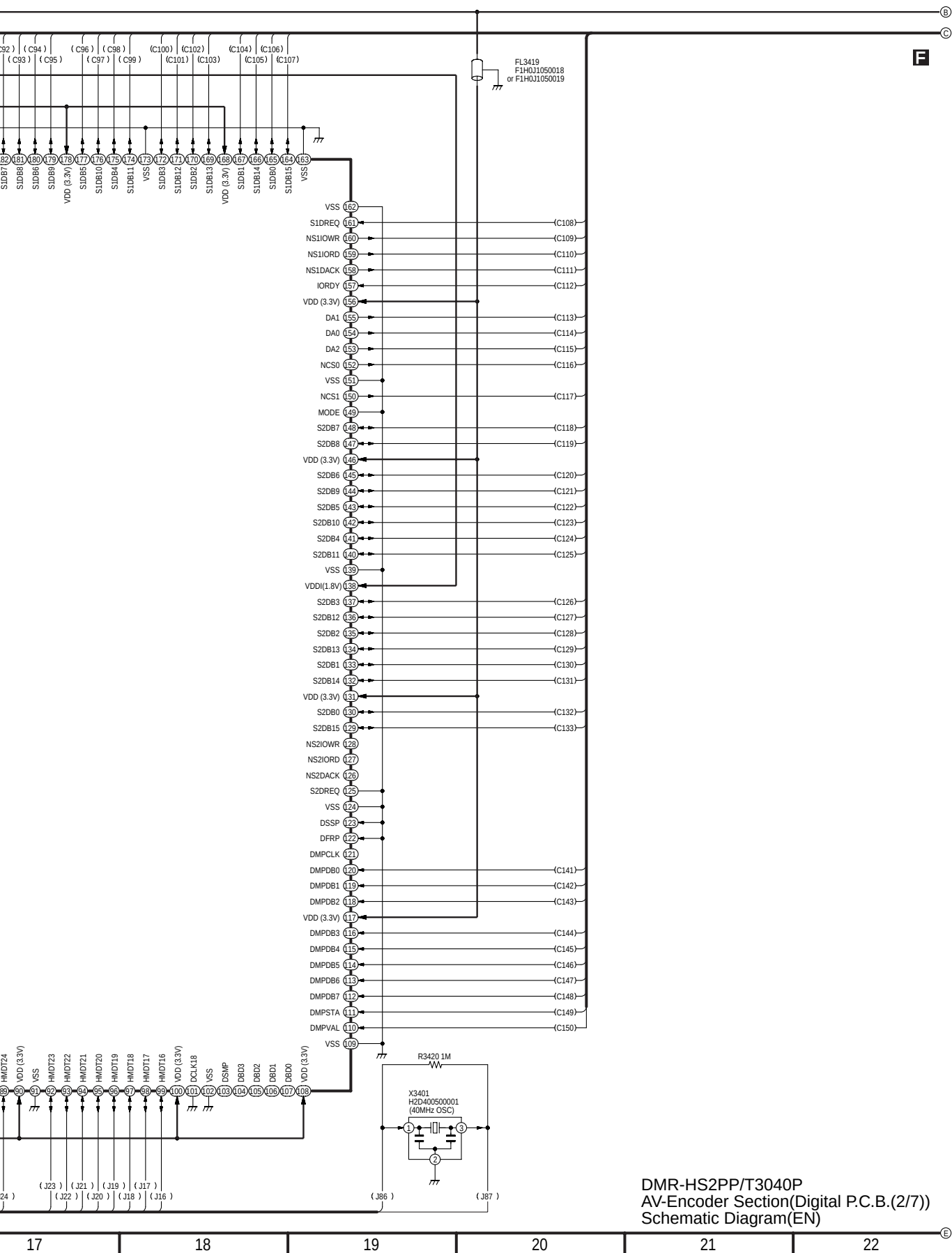
15.9. AV-Encoder Section (Digital P.C.B. (2/7)) Schematic Diagram (EN)



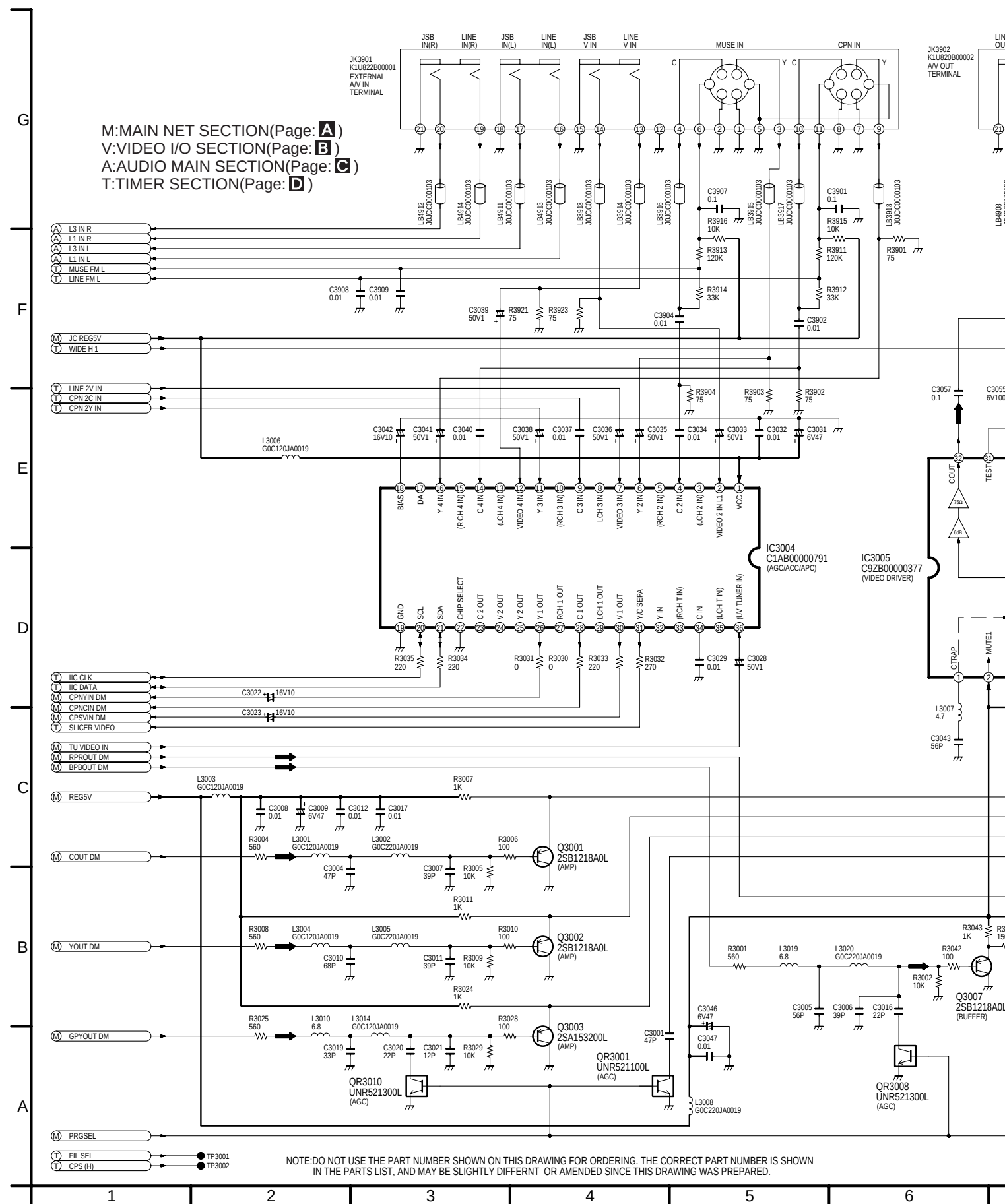




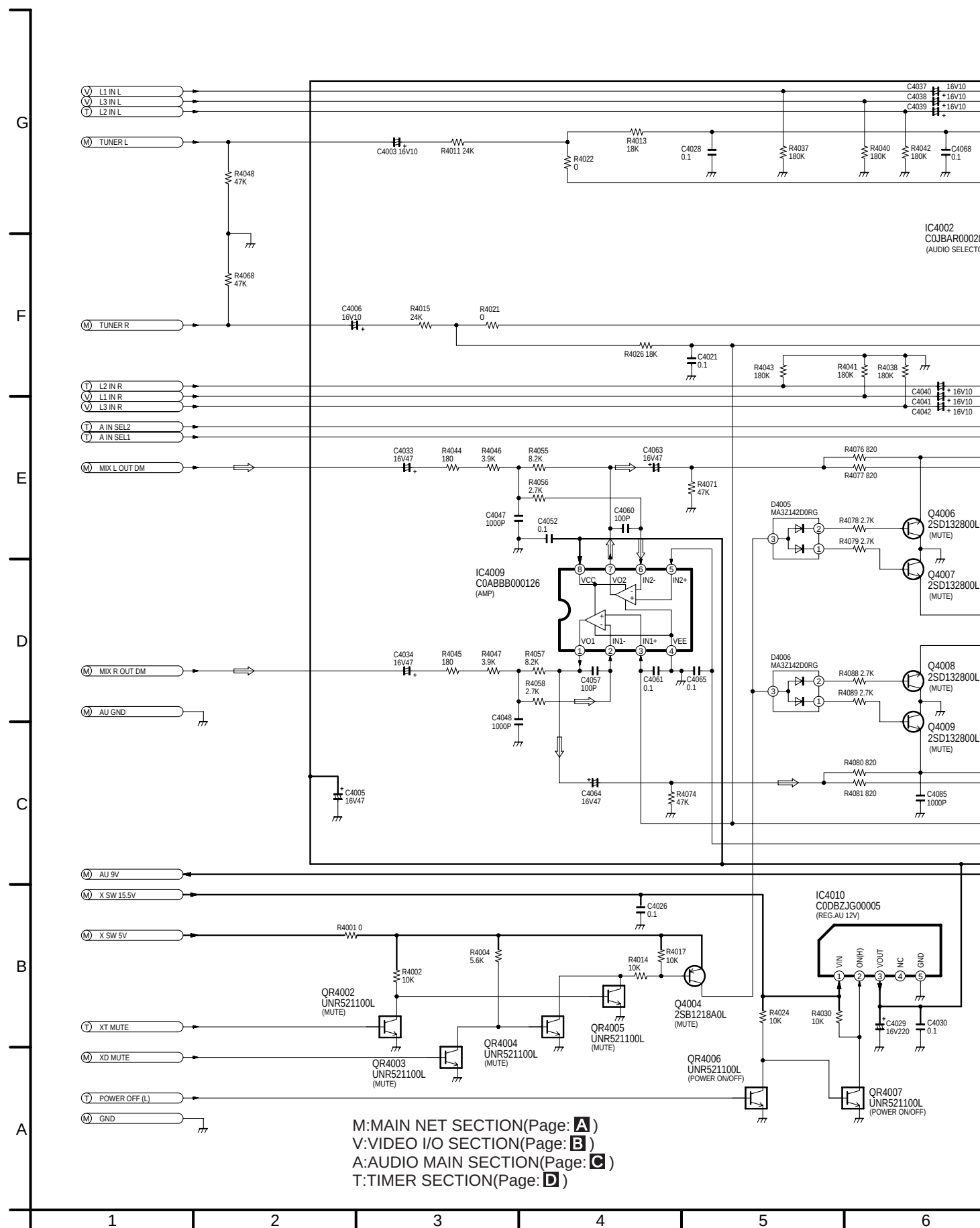
DMR-HS2PP/T3040P AV-Encoder Section(Digital P.C.B.(2/7)) Schematic Diagram(EN)

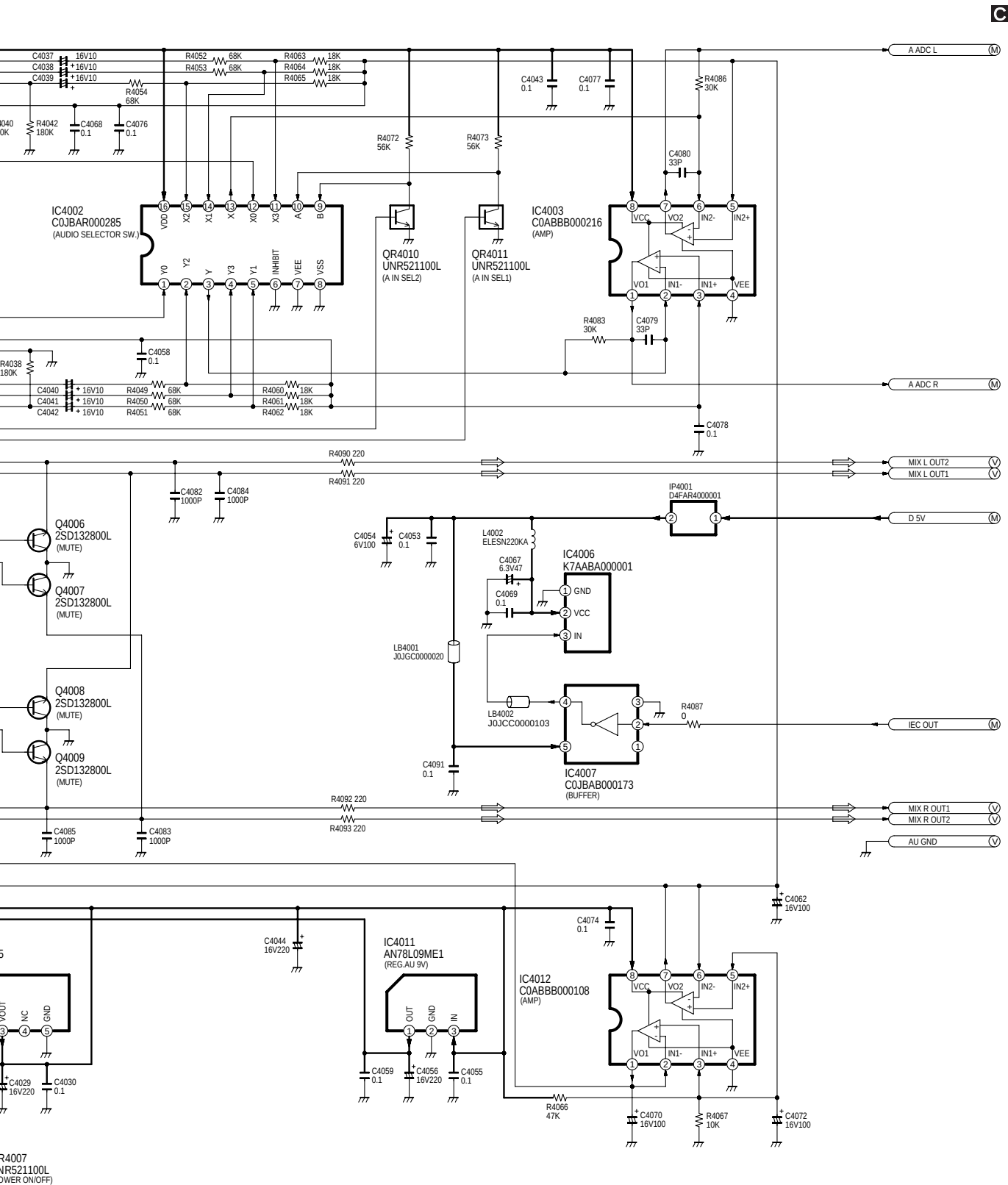


15.5. Video I/O Section (Main P.C.B. (2/4)) Schematic Diagram (V)



15.6. Audio Main Section (Main P.C.B. (3/4)) Schematic Diagram (A)

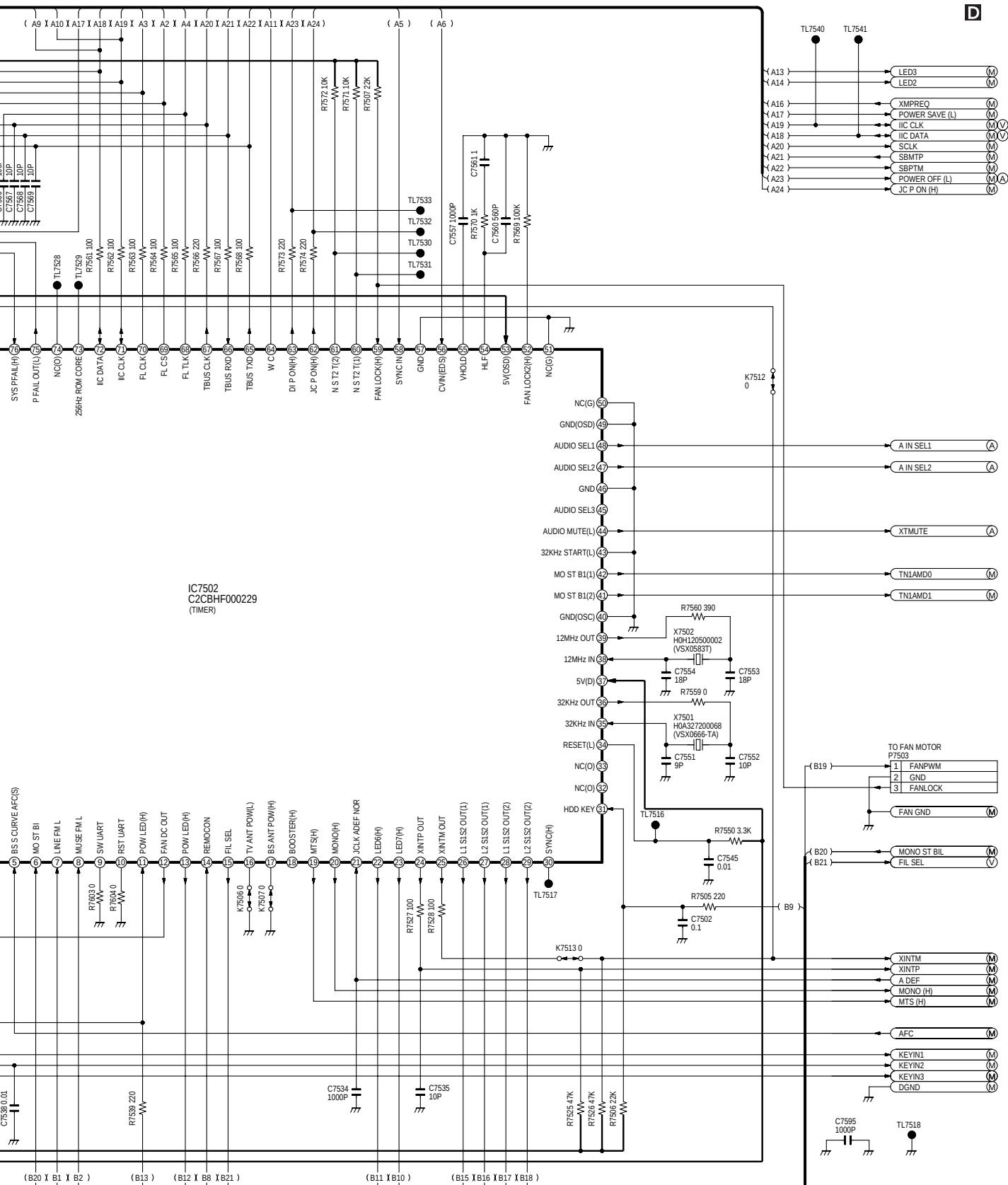




DMR-HS2PP/T3040P
Audio Main Section (Main P.C.B. (3/4))
Schematic Diagram (A)

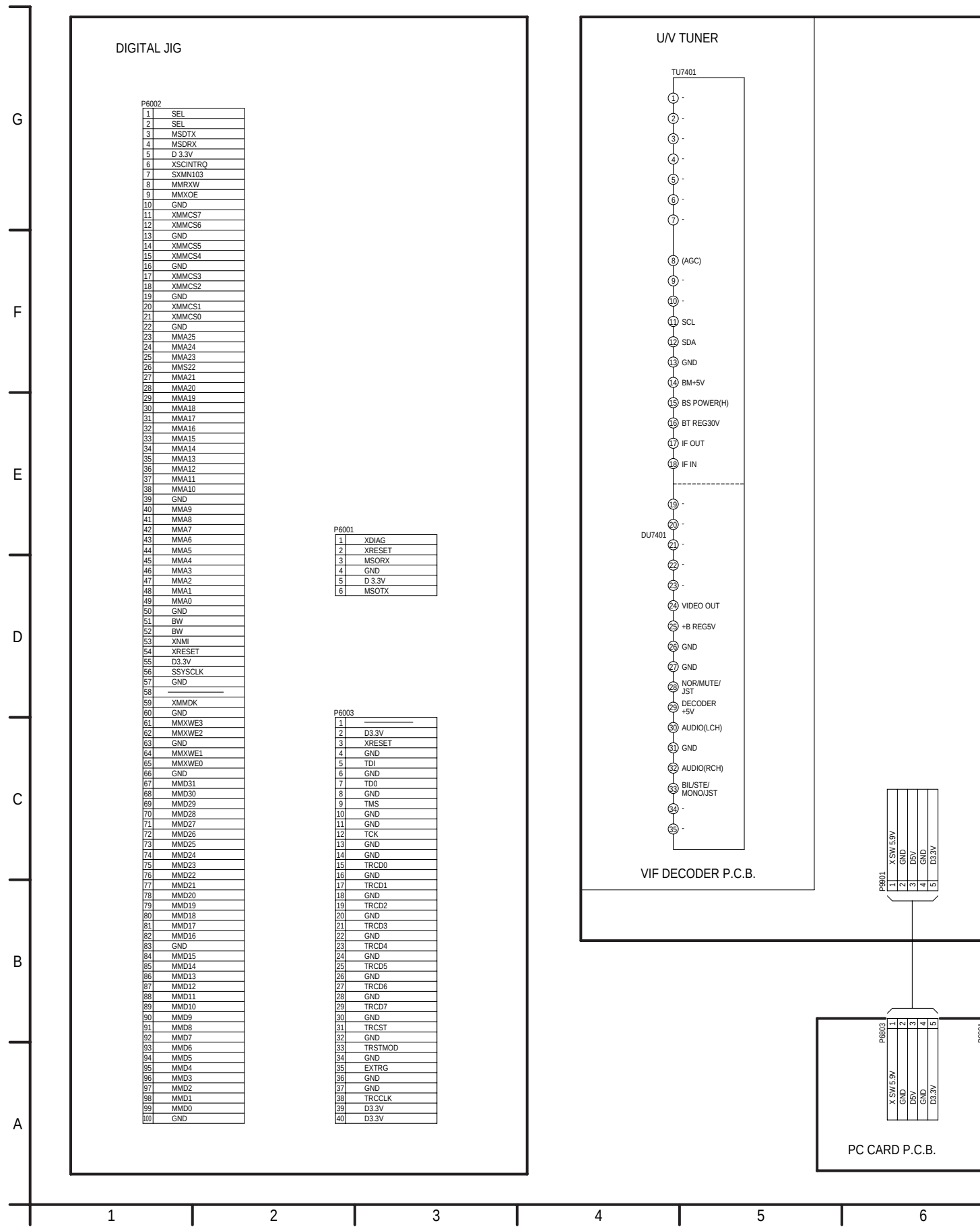


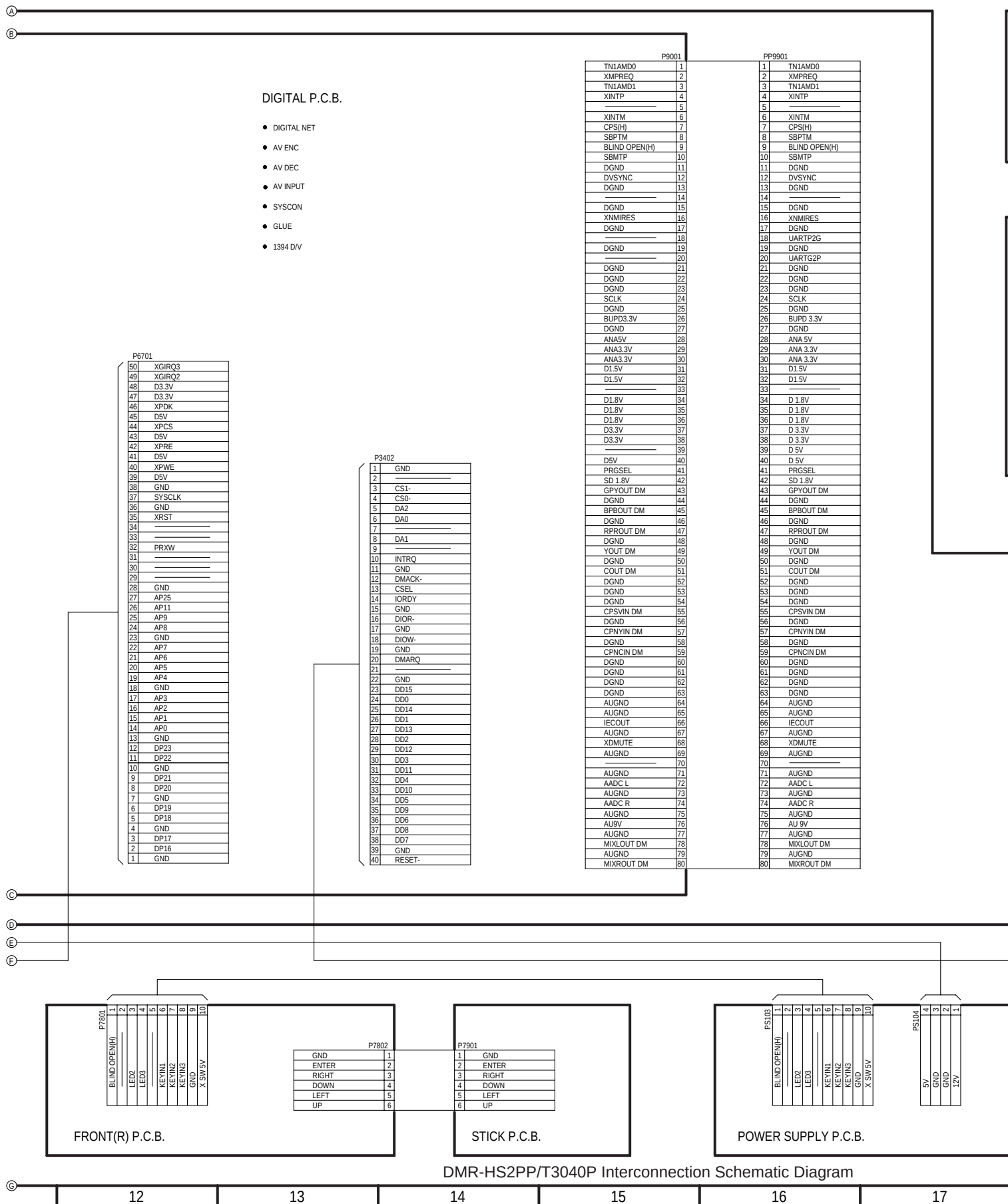


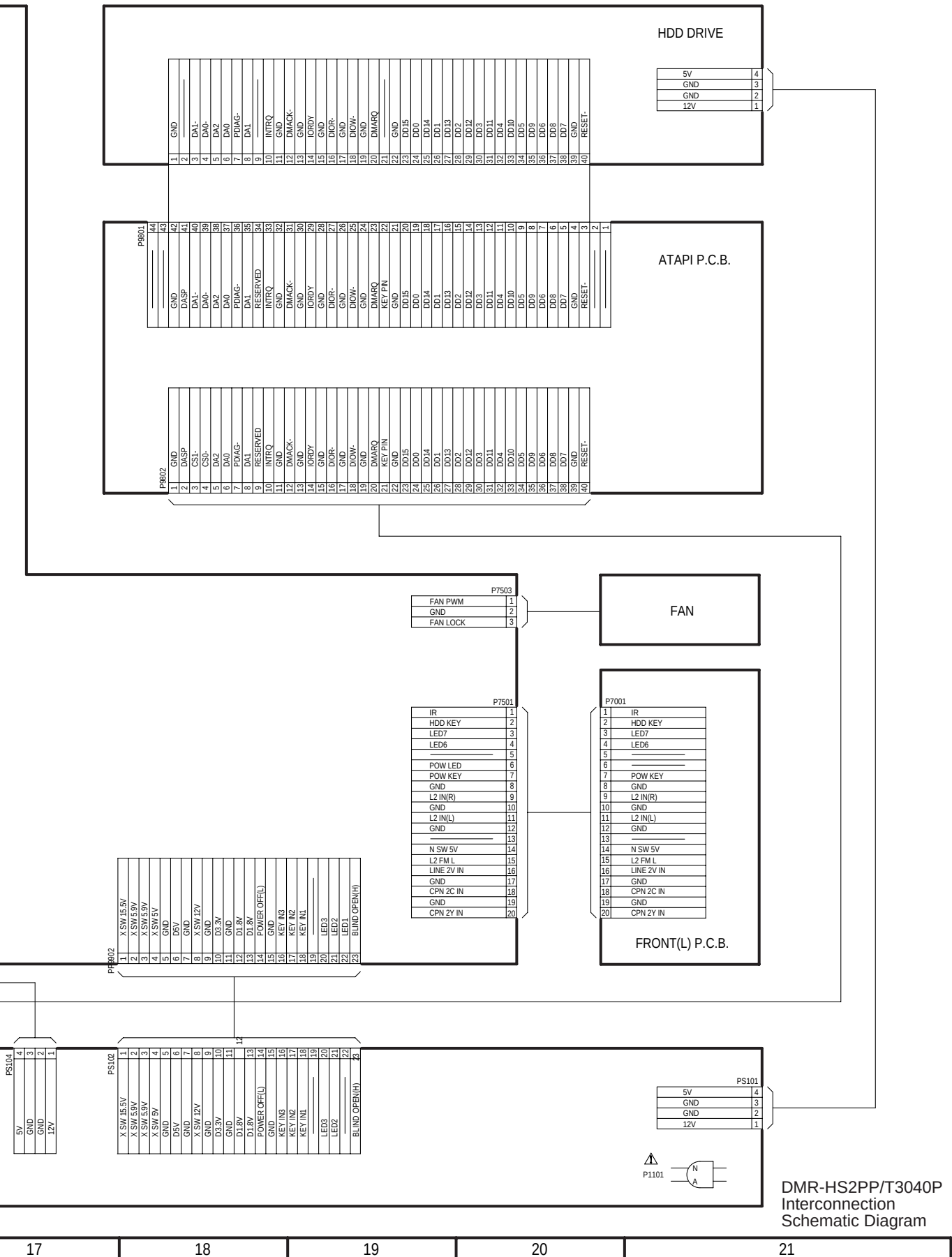


15 Schematic Diagram

15.1. Interconnection Schematic Diagram

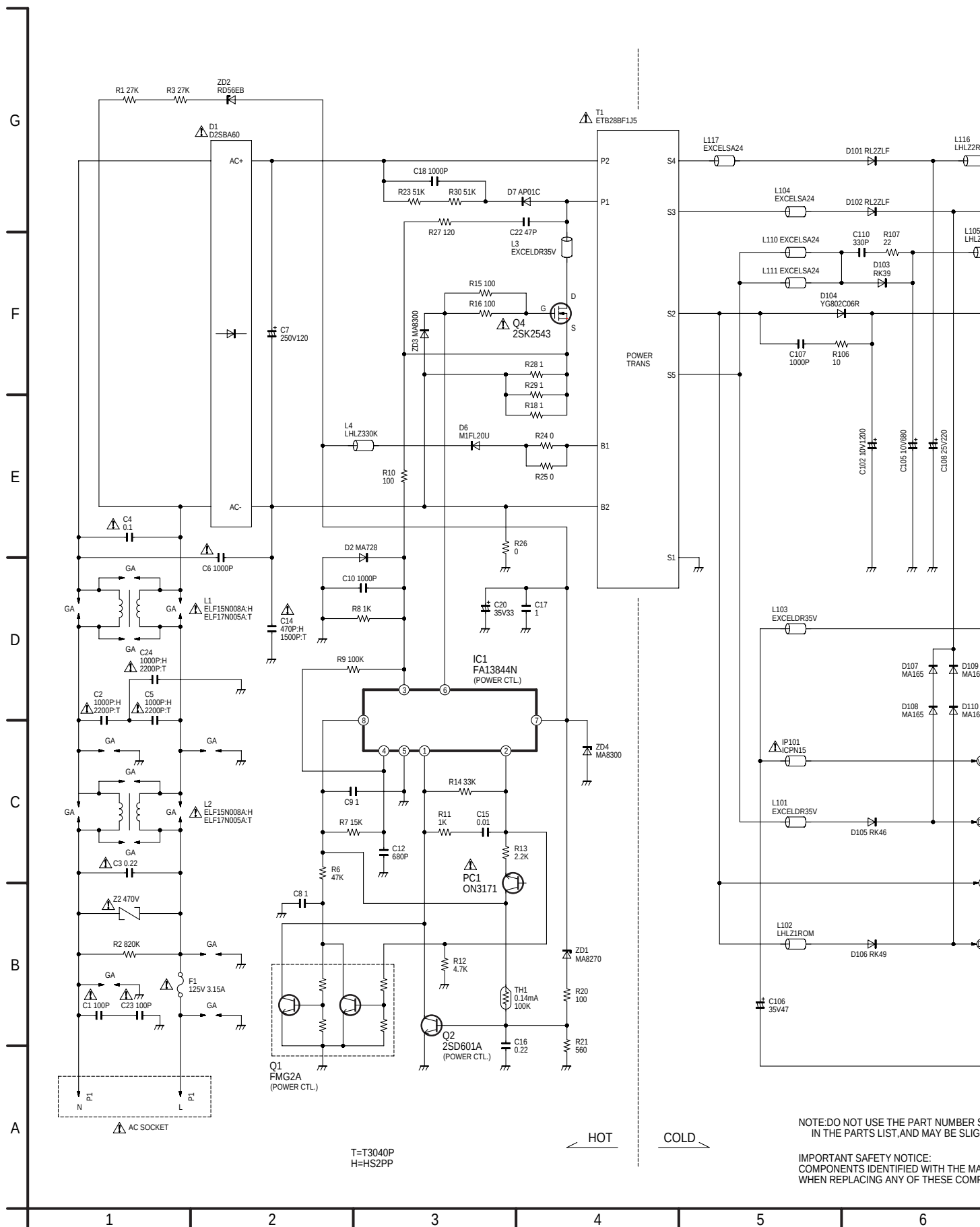


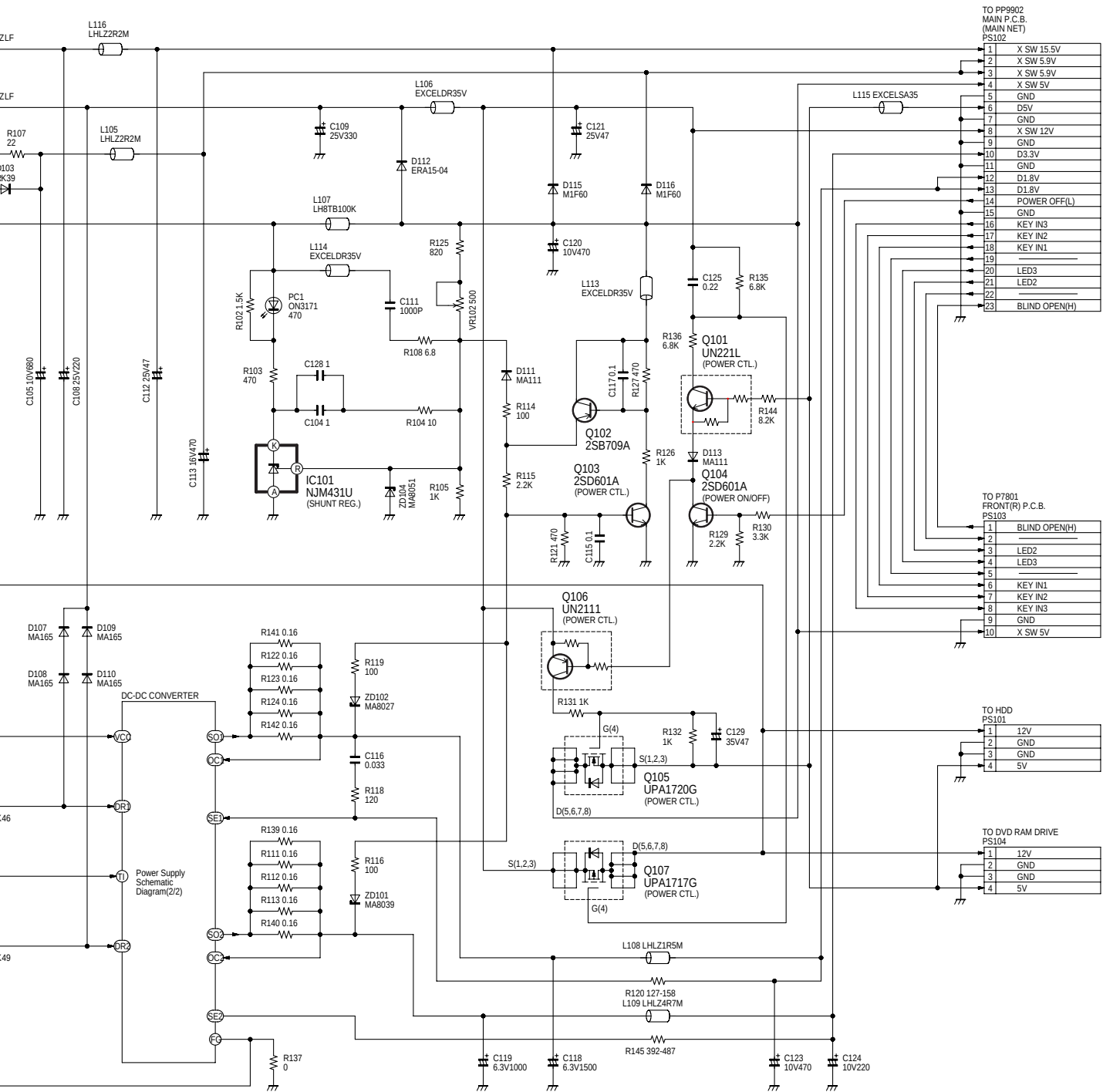




DMR-HS2PP/T3040P
Interconnection
Schematic Diagram

15.2. Power Supply Schematic Diagram (Power Supply P.C.B. (1/2))



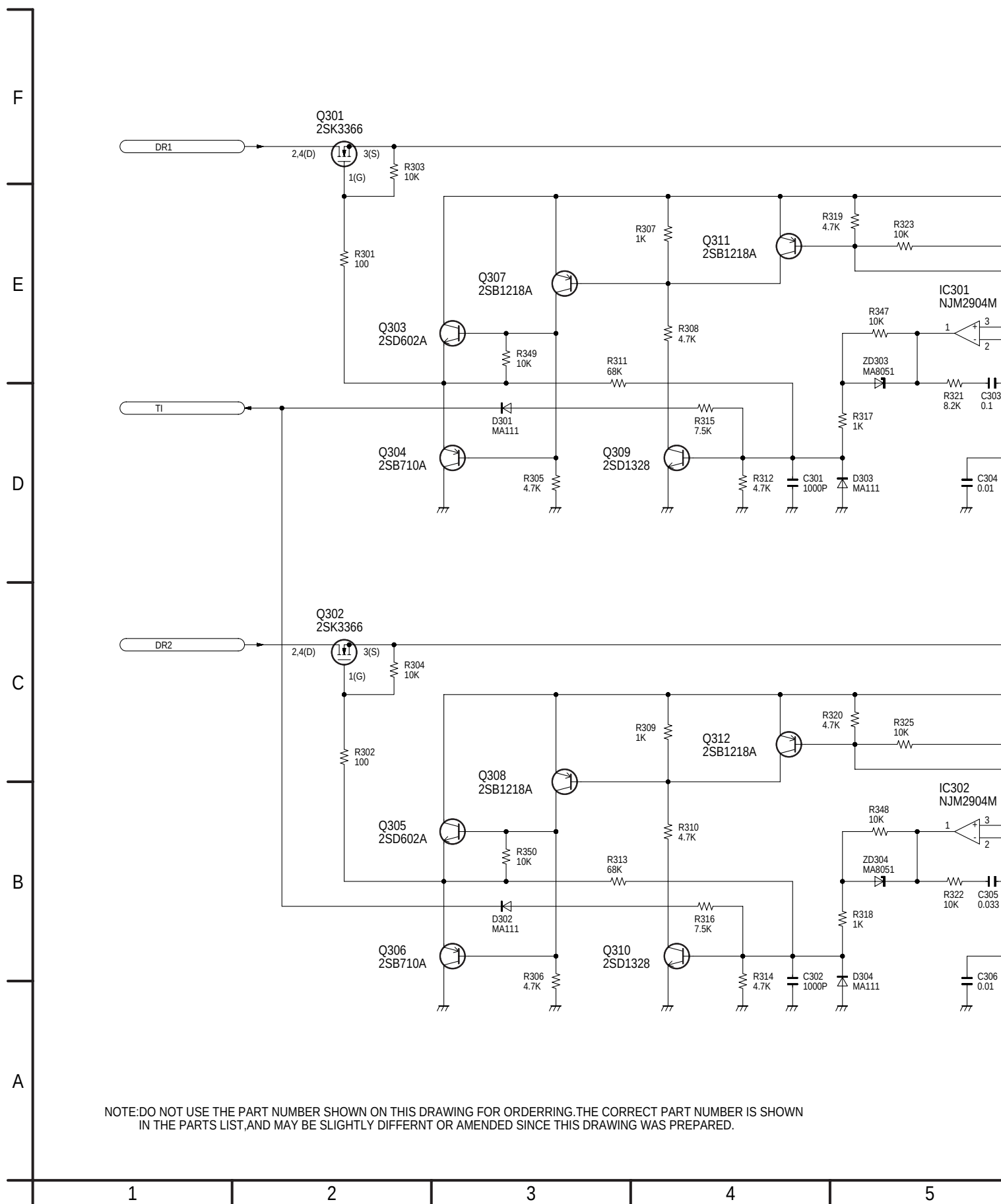


THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING THE CORRECT PART NUMBER IS SHOWN LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

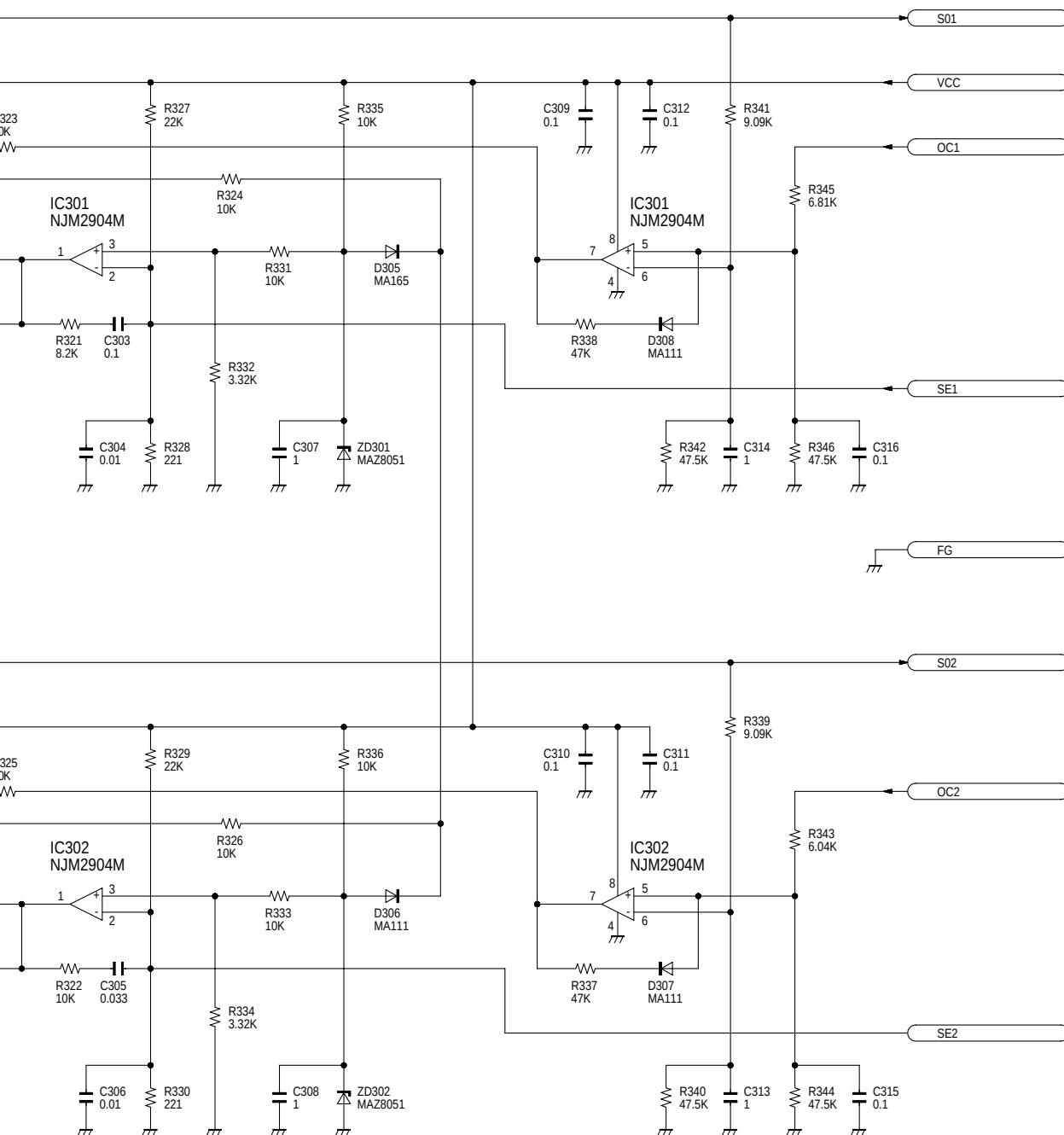
SAFETY NOTICE:
IDENTIFIED WITH THE MARK HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
REPLACE ANY OF THESE COMPONENTS ONLY THE SAME TYPE.

DMR-HS2PP/T3040P
Power Supply Schematic Diagram
(Power Supply P.C.B. (1/2))

15.3. Power Supply Schematic Diagram (Power Supply P.C.B. (2/2))

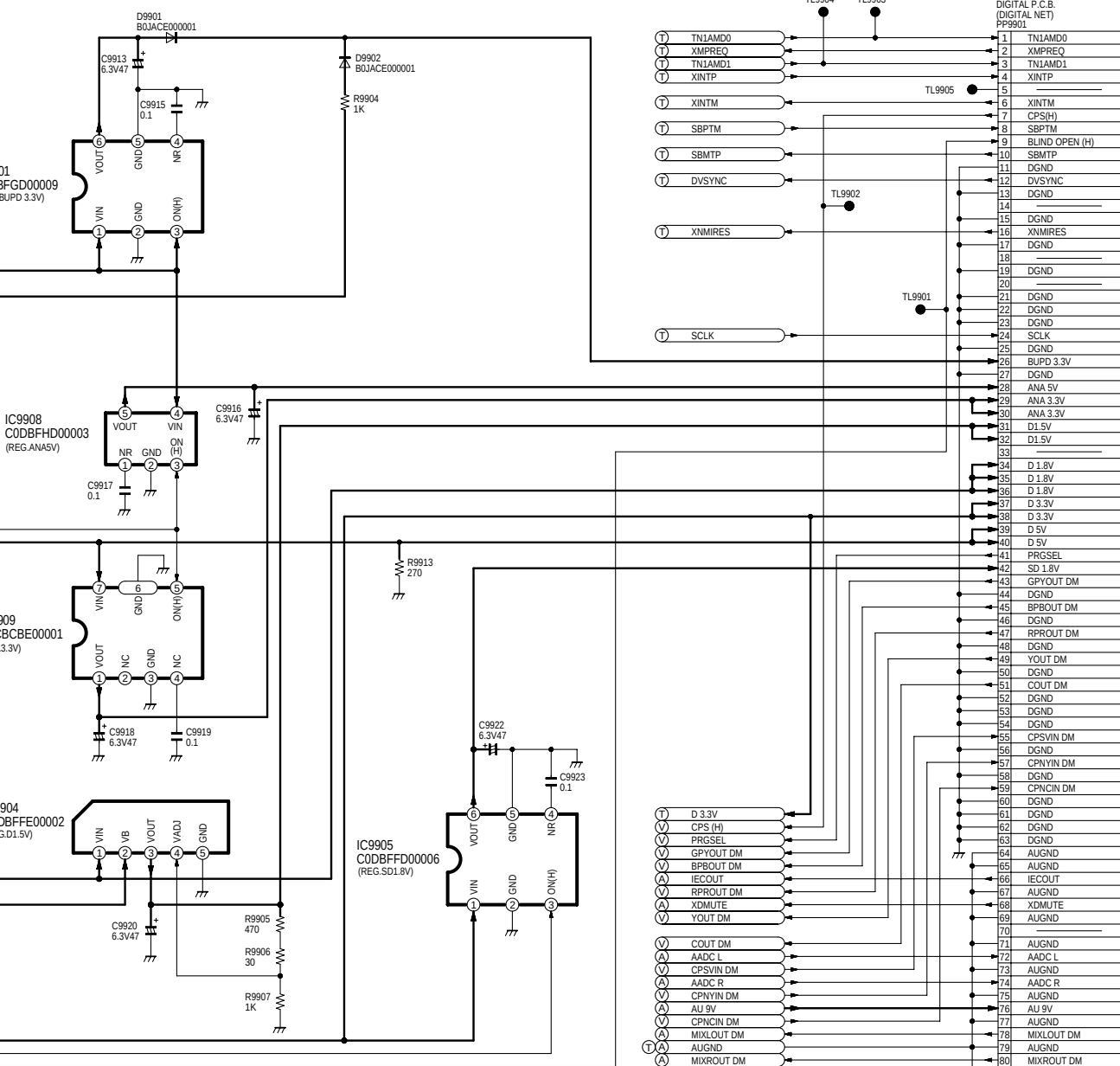
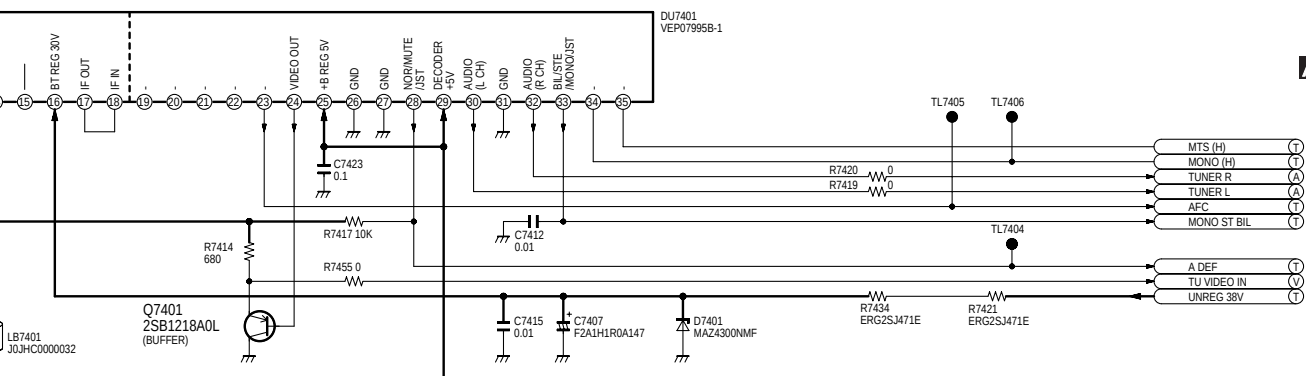


NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.



DMR-HS2PP/T3040P
Power Supply Schematic Diagram
(Power Supply P.C.B. (2/2))



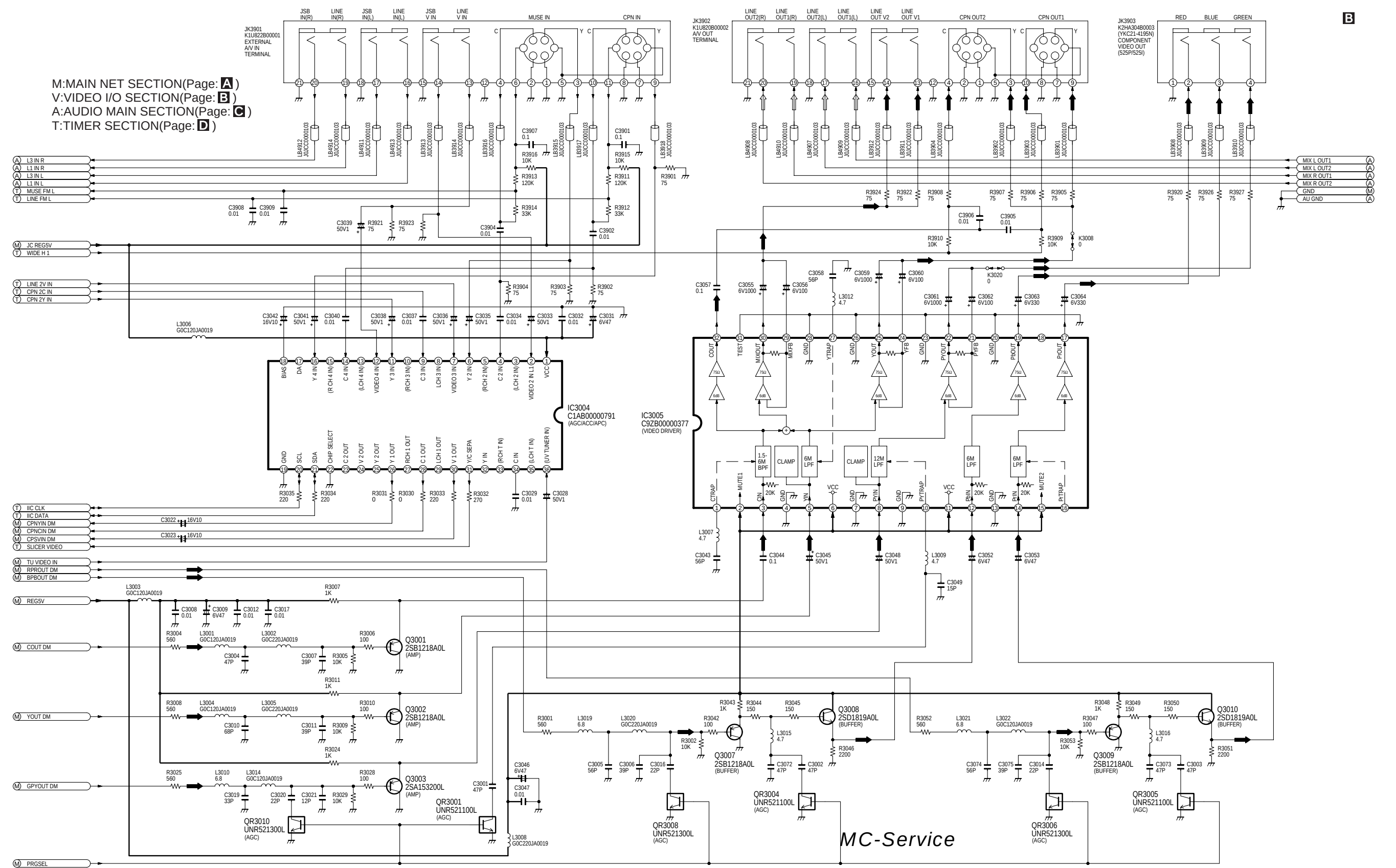


DMR-HS2PP/T3040P
Main Net Section (Main P.C.B. (1/4)) Schematic Diagram (M)

G
F
E
D
C
B
A

B

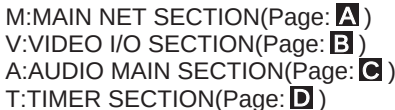
M:MAIN NET SECTION(Page: **A**)
V:VIDEO I/O SECTION(Page: **B**)
A:AUDIO MAIN SECTION(Page: **C**)
T:TIMER SECTION(Page: **D**)



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-HS2PP/T3040P
Video I/O Section (Main P.C.B. (2/4)) Schematic Diagram (V)

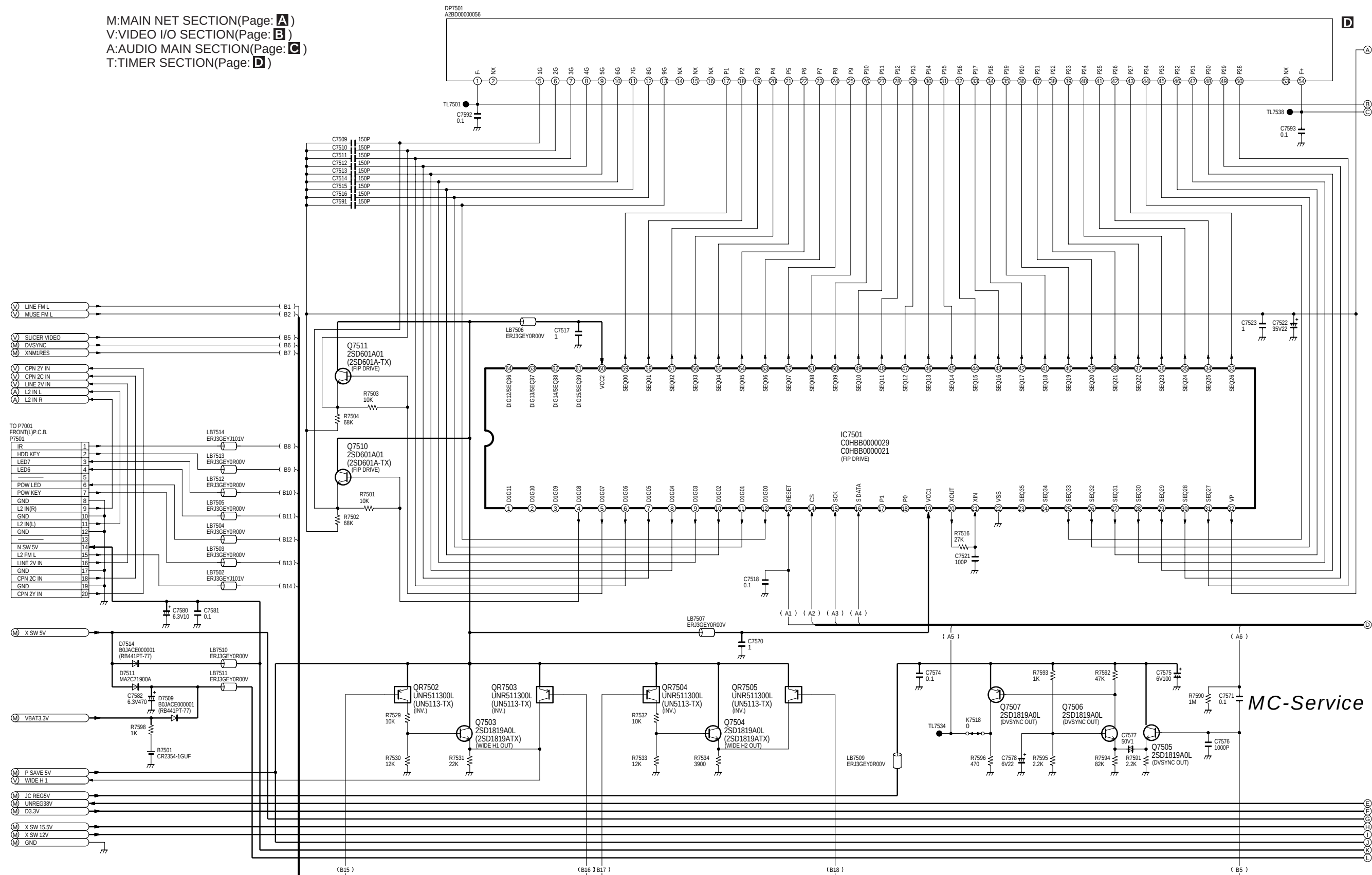
1 2 3 4 5 6 7 8 9 10 11



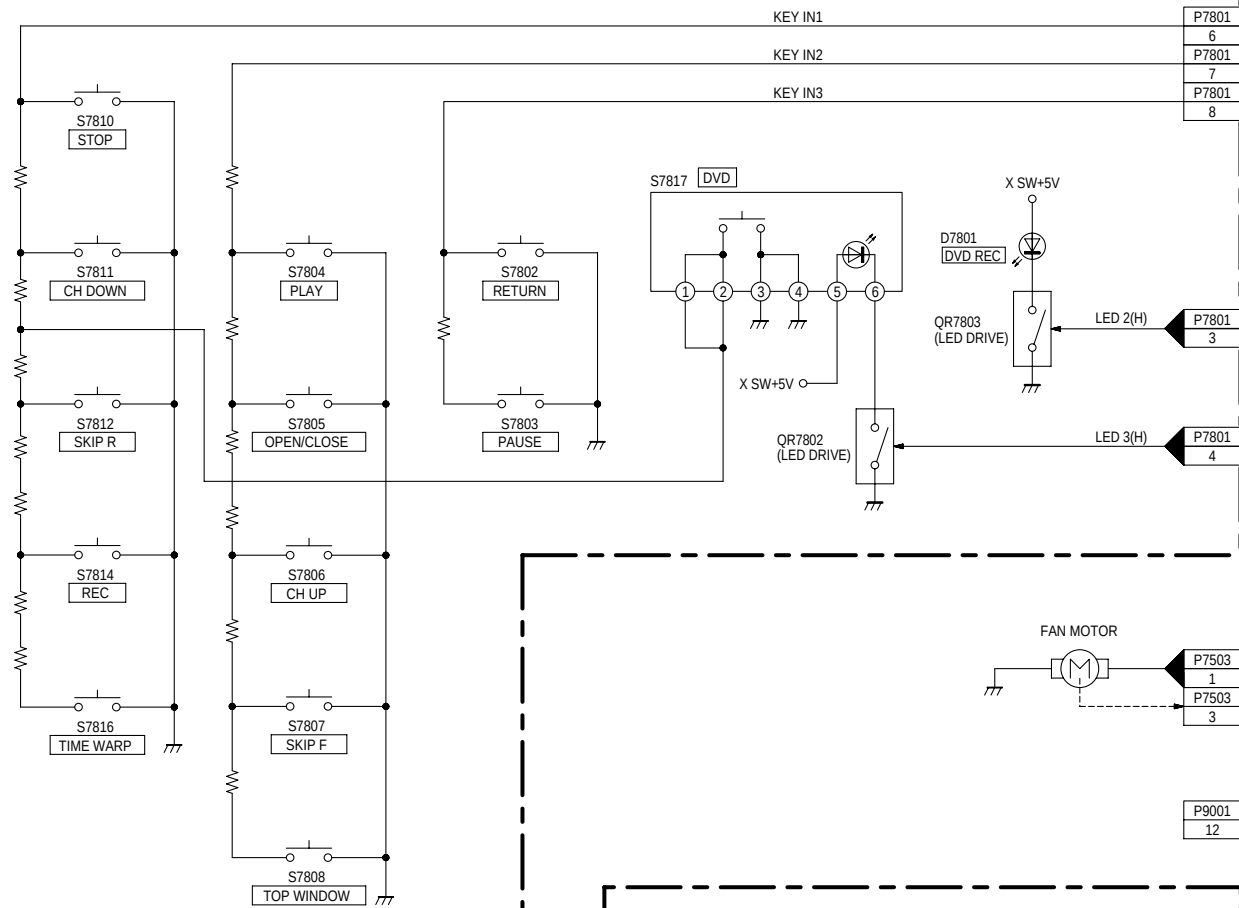
DMR-HS2PP/T3040P
Timer Section (Main P.C.B. (4/4)) Schematic Diagram (T

DMR-HS2PP/T3040P
Timer Section (Main P.C.B. (4/4)) Schematic Diagram (T)

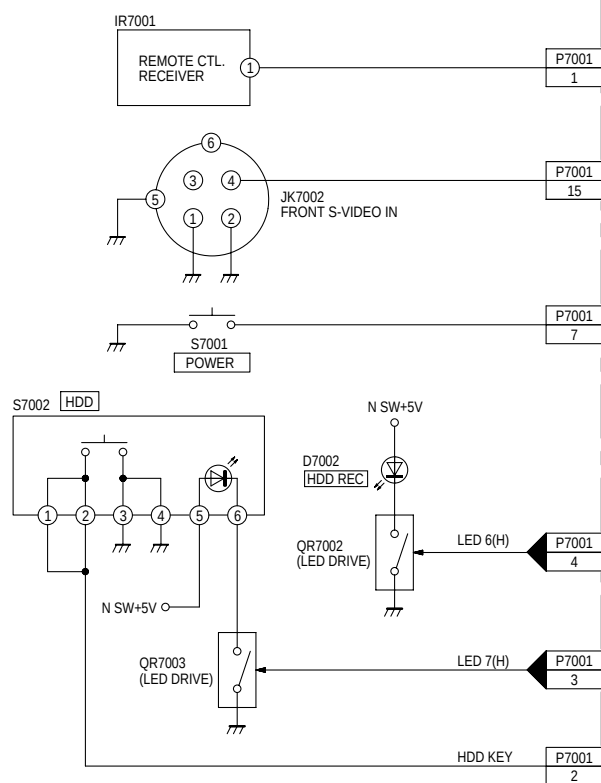
M:MAIN NET SECTION(Page: **A**)
V:VIDEO I/O SECTION(Page: **B**)
A:AUDIO MAIN SECTION(Page: **C**)
T:TIMER SECTION(Page: **D**)



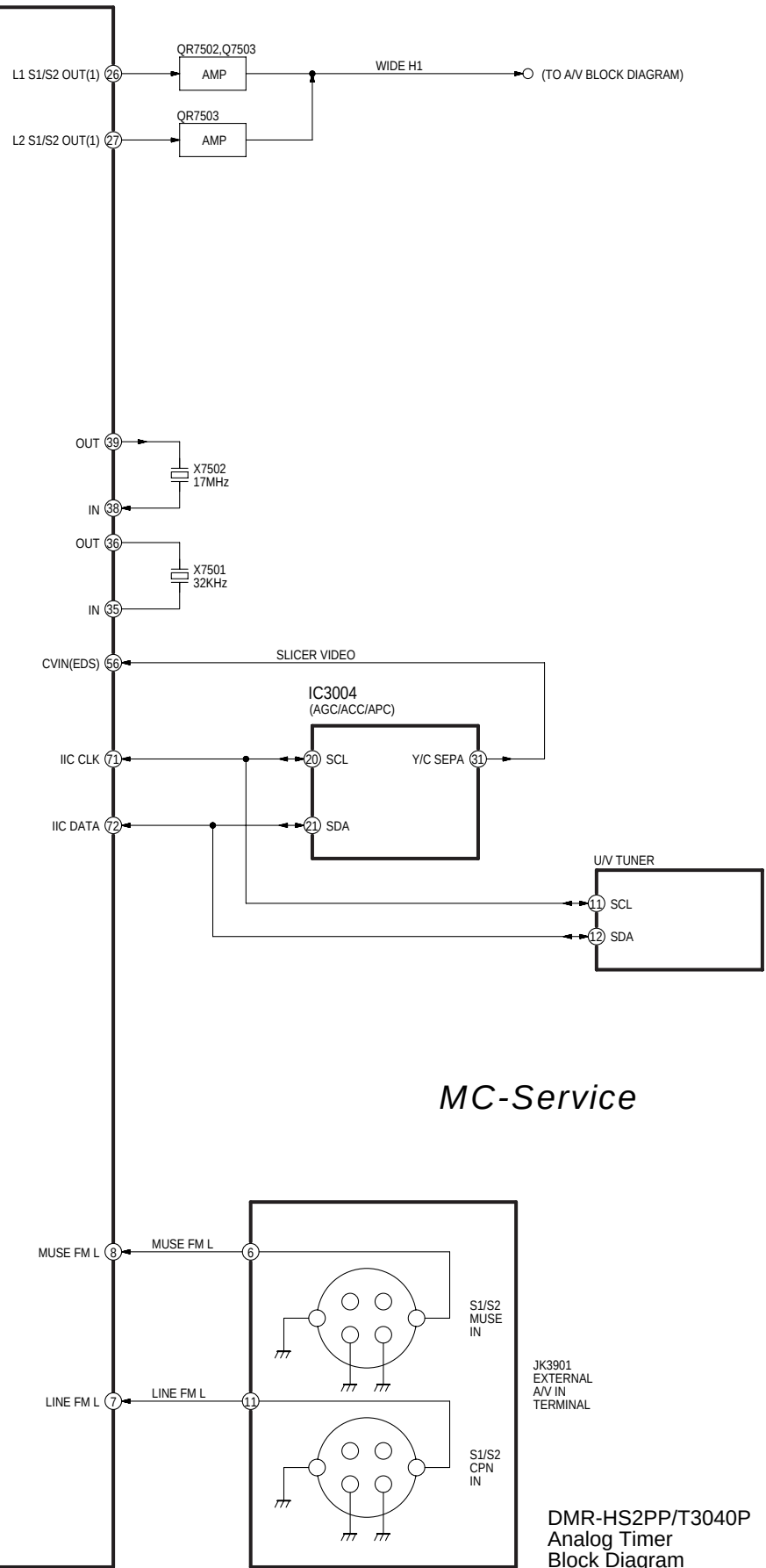
FRONT(R) P.C.B.



FRONT(L) P.C.B.

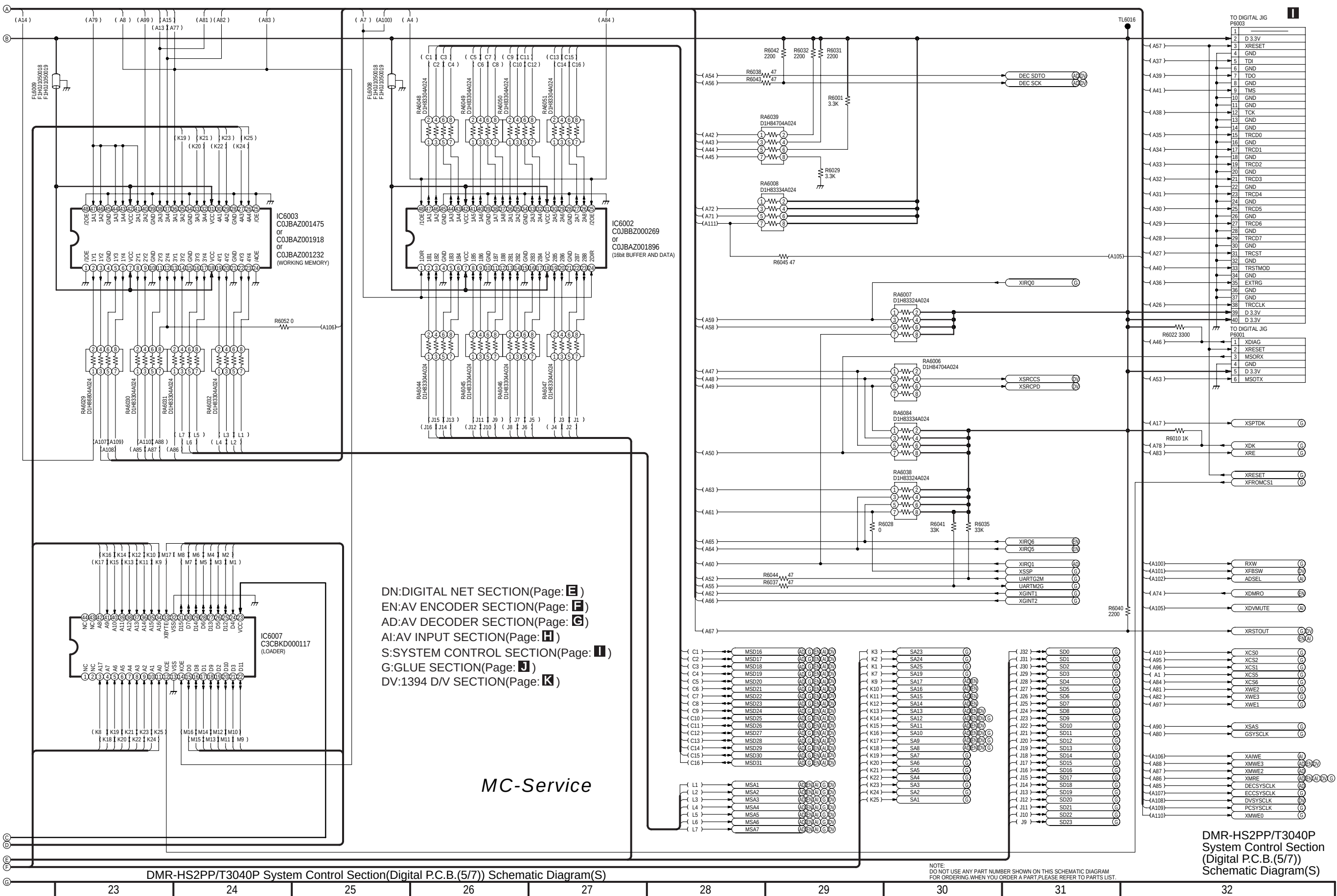


IC7502 (TIMER)



MC-Service

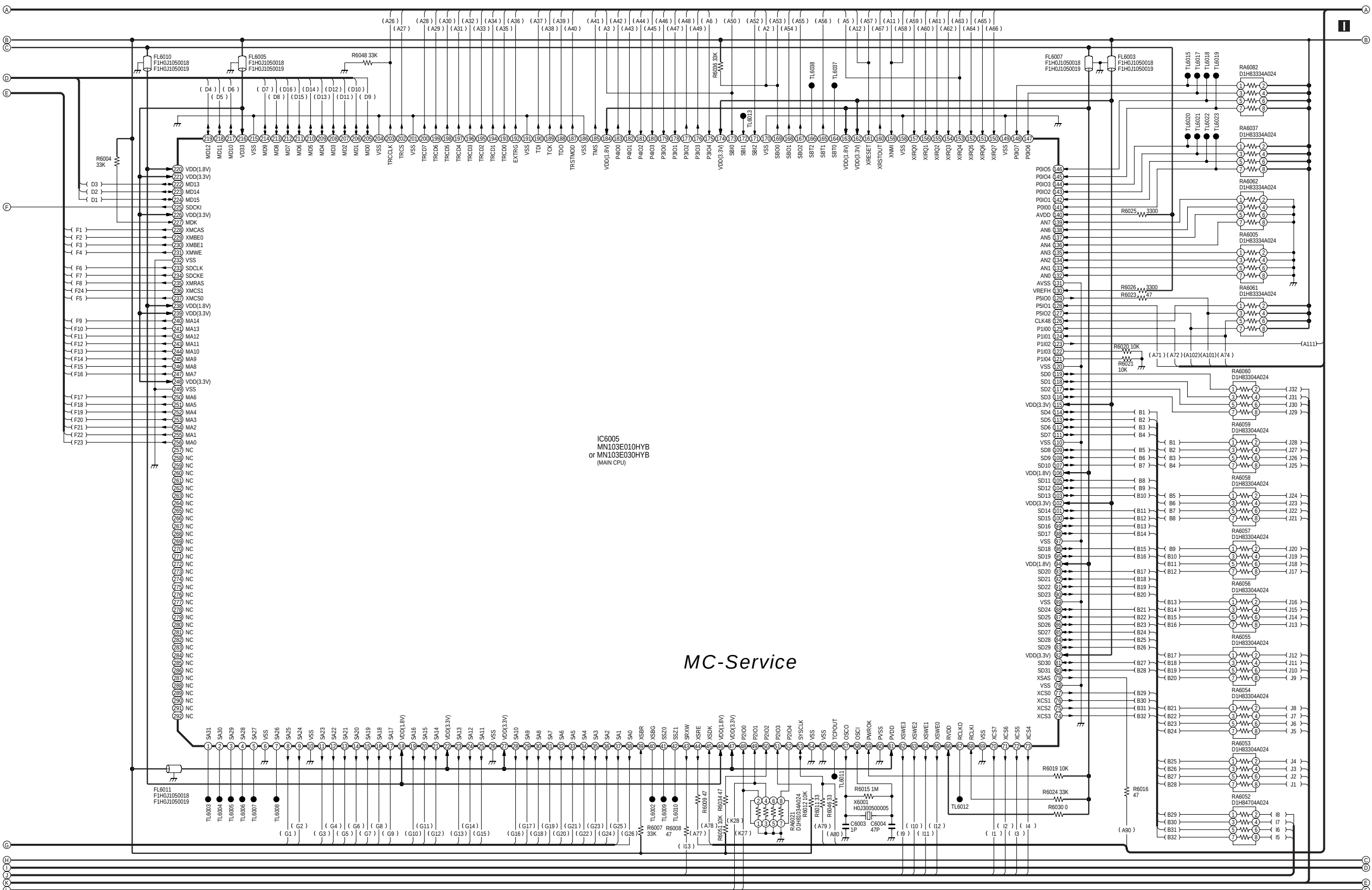
DMR-HS2PP/T3040P
Analog Timer
Block Diagram



DMR-HS2PP/T3040P System Control Section(Digital P.C.B.(5/7)) Schematic Diagram(S)

DMR-HS2PP/T3040P
System Control Section
(Digital P.C.B.(5/7))
Schematic Diagram(S)

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.



DMR-HS2PP/T3040P System Control Section(Digital P.C.B.(5/7)) Schematic Diagram(S)

DMR-HS2PP/T3040P System Control Section(Digital P.C.B.(5/7)) Schematic Diagram(S)

C

B

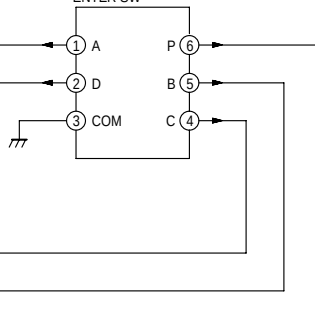
A

TO P7802
FRONT (R) P.C.B.
P7901

GND	1
ENTER	2
RIGHT	3
DOWN	4
LEFT	5
UP	6



S7901
K0C115A00002
ENTER SW



MC-Service

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC
DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE
REFER TO PARTS LIST.

DMR-HS2PP/T3040P
Stick Schematic Diagram

1

2

3

4

F

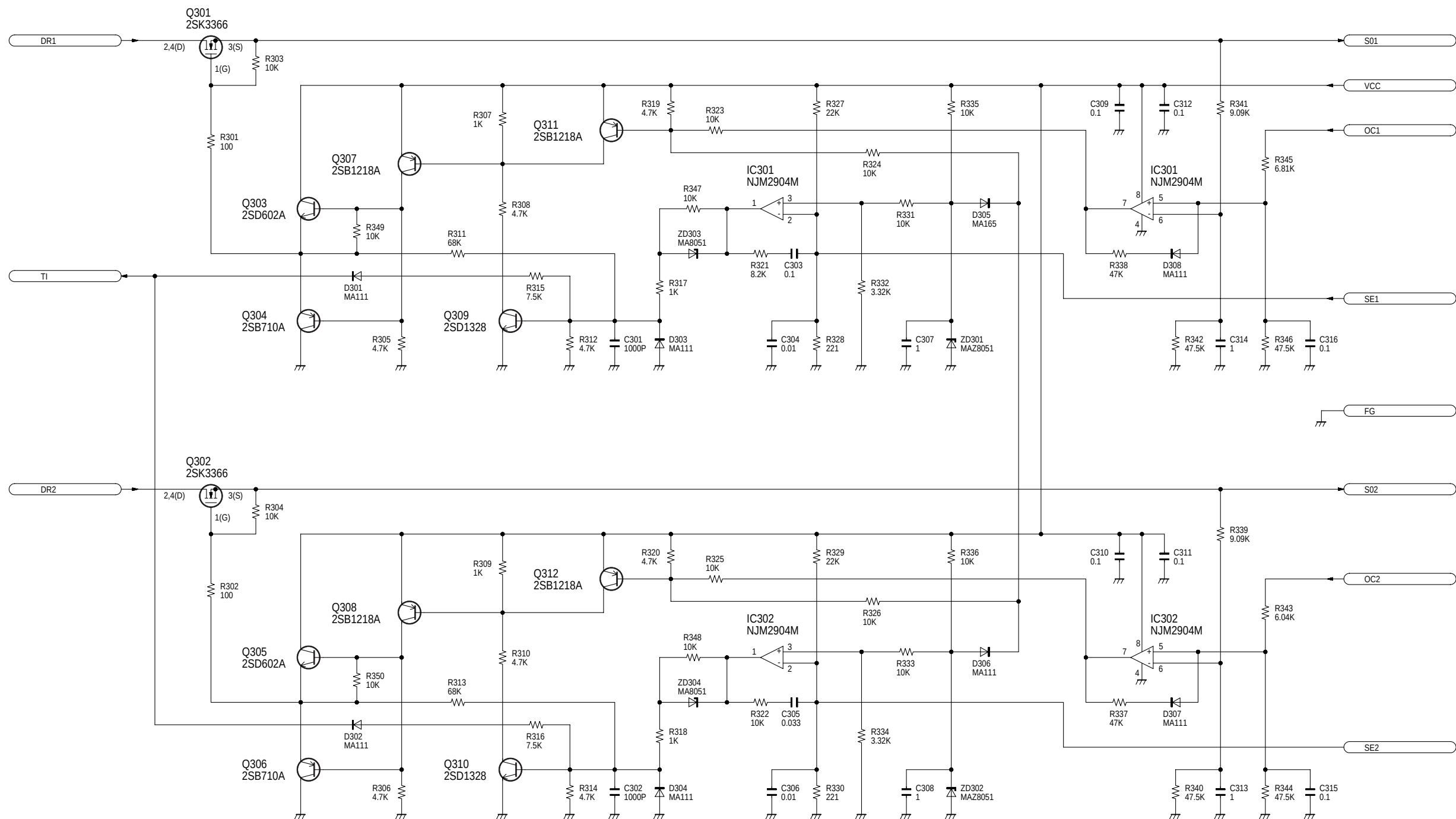
E

D

C

B

A



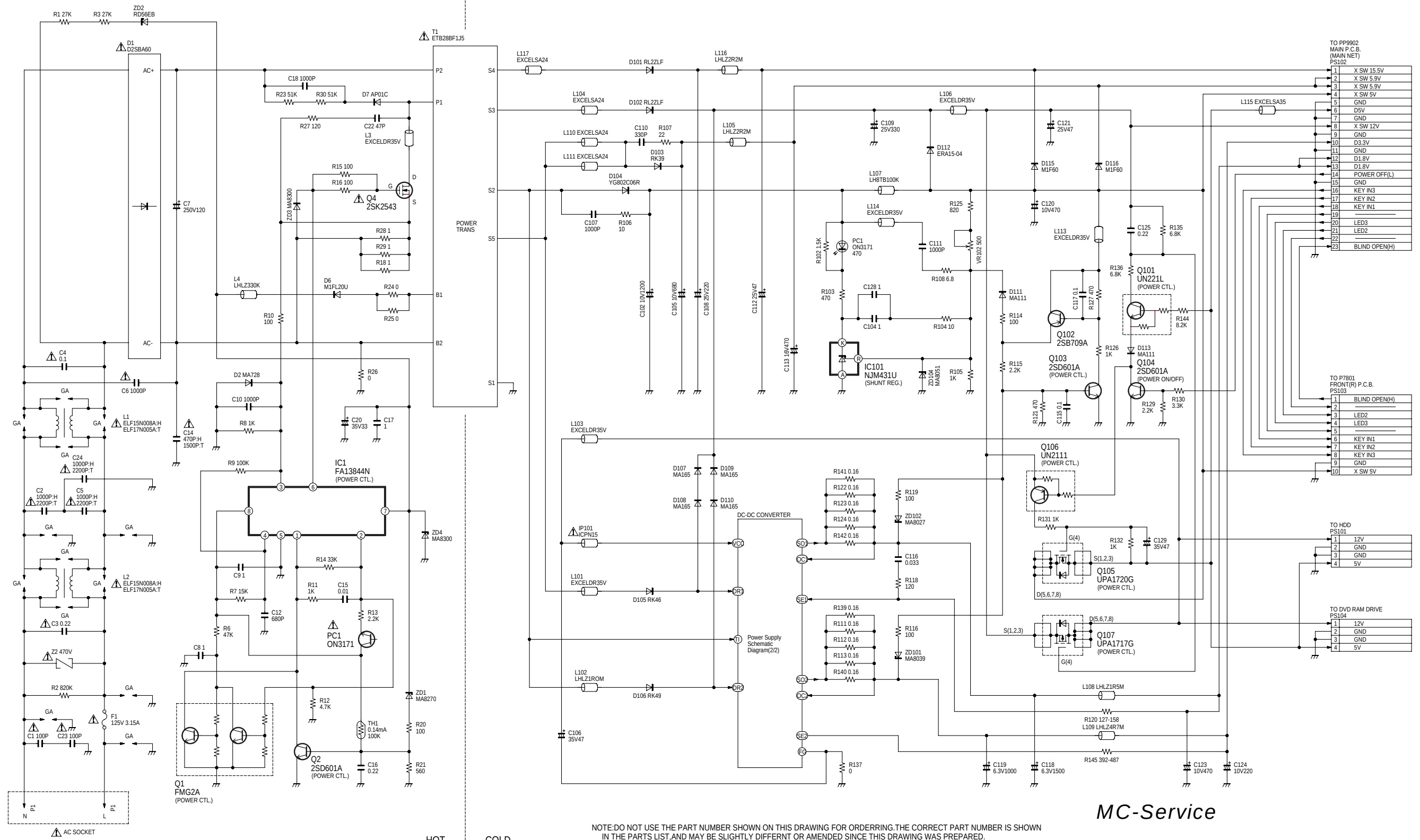
MC-Service

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-HS2PP/T3040P
Power Supply Schematic Diagram
(Power Supply P.C.B. (2/2))

1 2 3 4 5 6 7 8 9

G
F
E
D
C
B
A



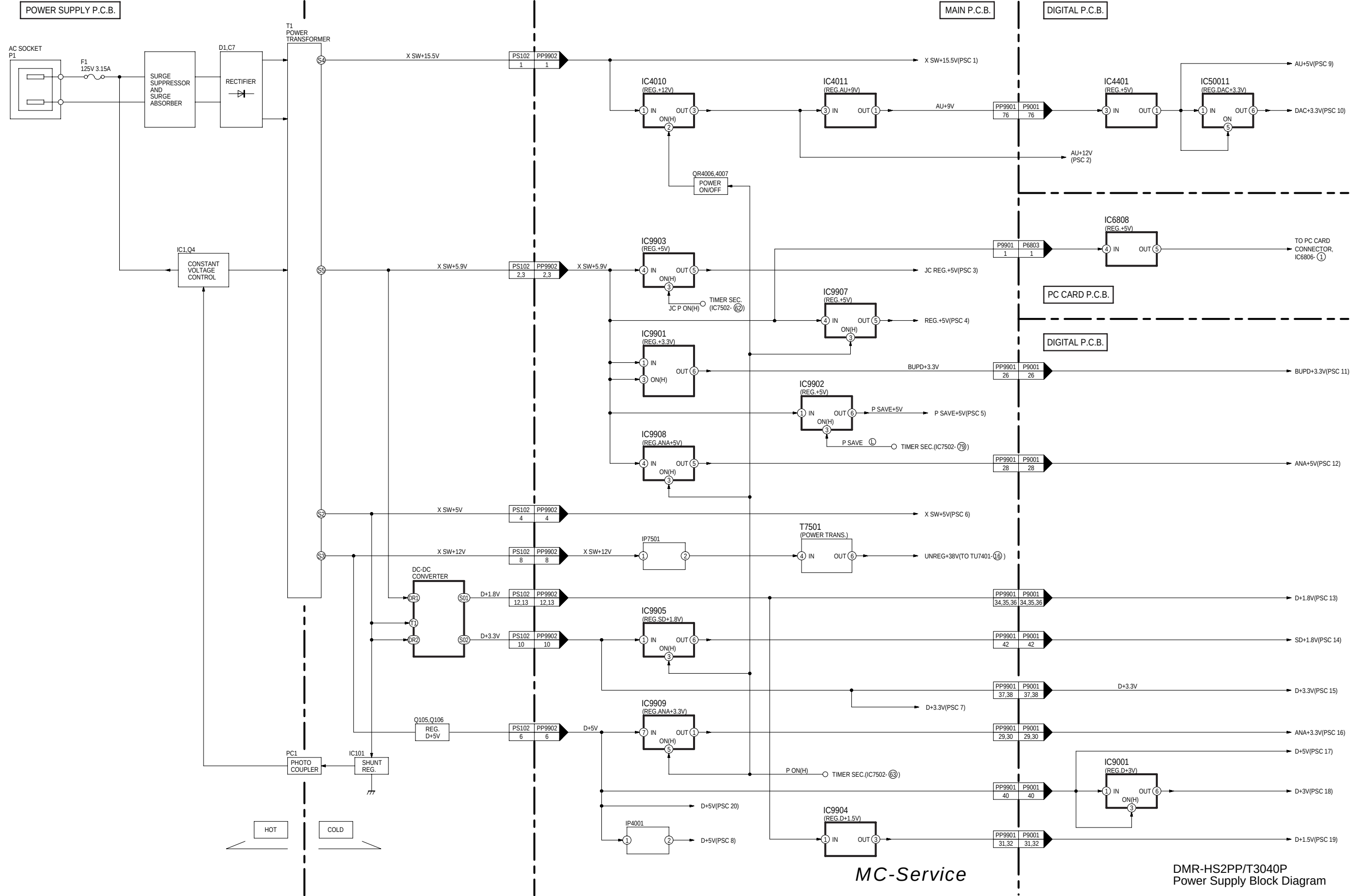
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

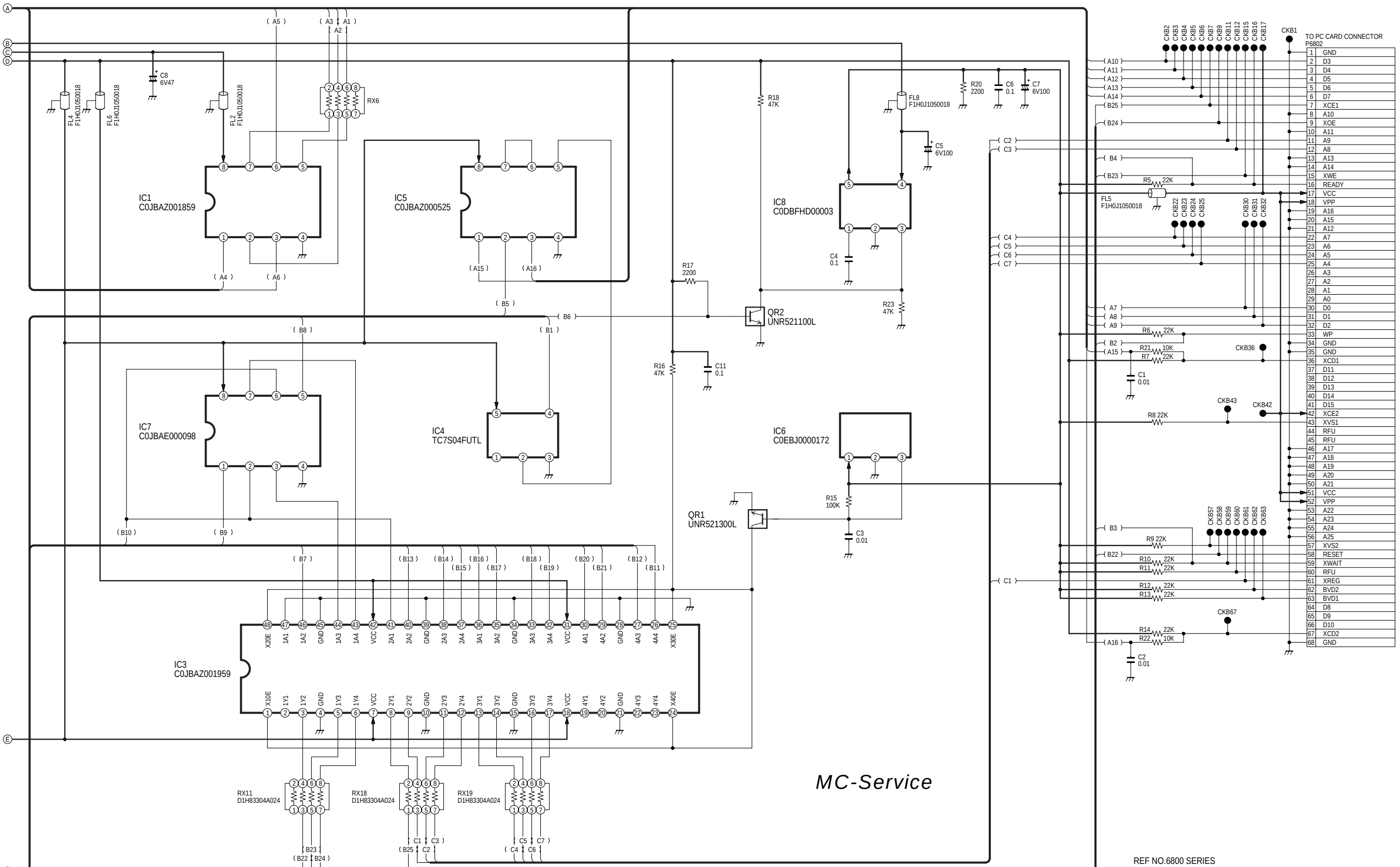
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚡ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,ONLY THE SAME TYPE.

MC-Service

DMR-HS2PP/T3040P
Power Supply Schematic Diagram
(Power Supply P.C.B. (1/2))

1 2 3 4 5 6 7 8 9 10 11





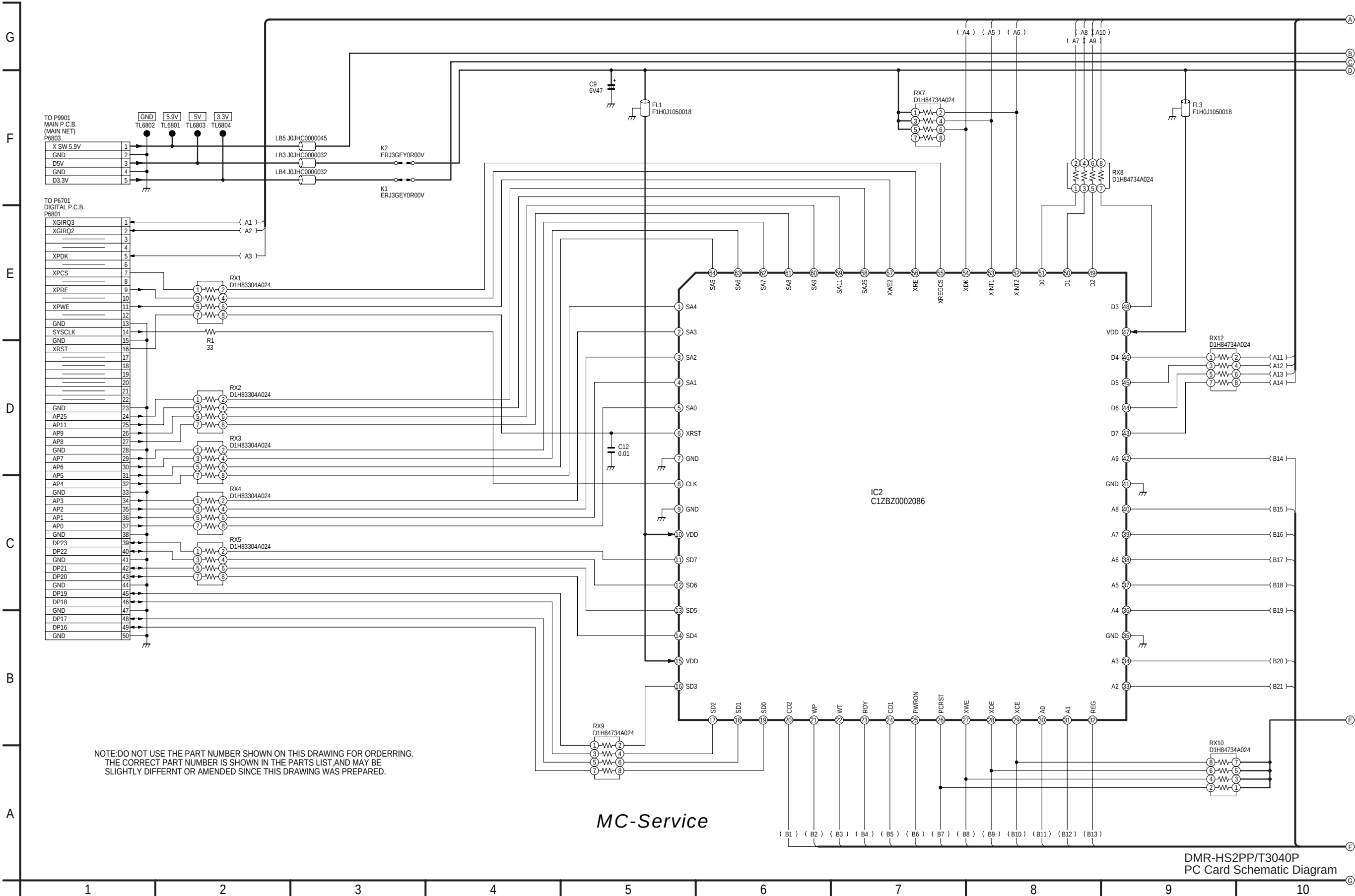
DMR-HS2PP/T3040P
PC Card Schematic Diagram(PC Card P.C.B.(2/2))

DMR-HS2PP/T3040P
PC Card Schematic Diagram

REF NO.6800 SERIES

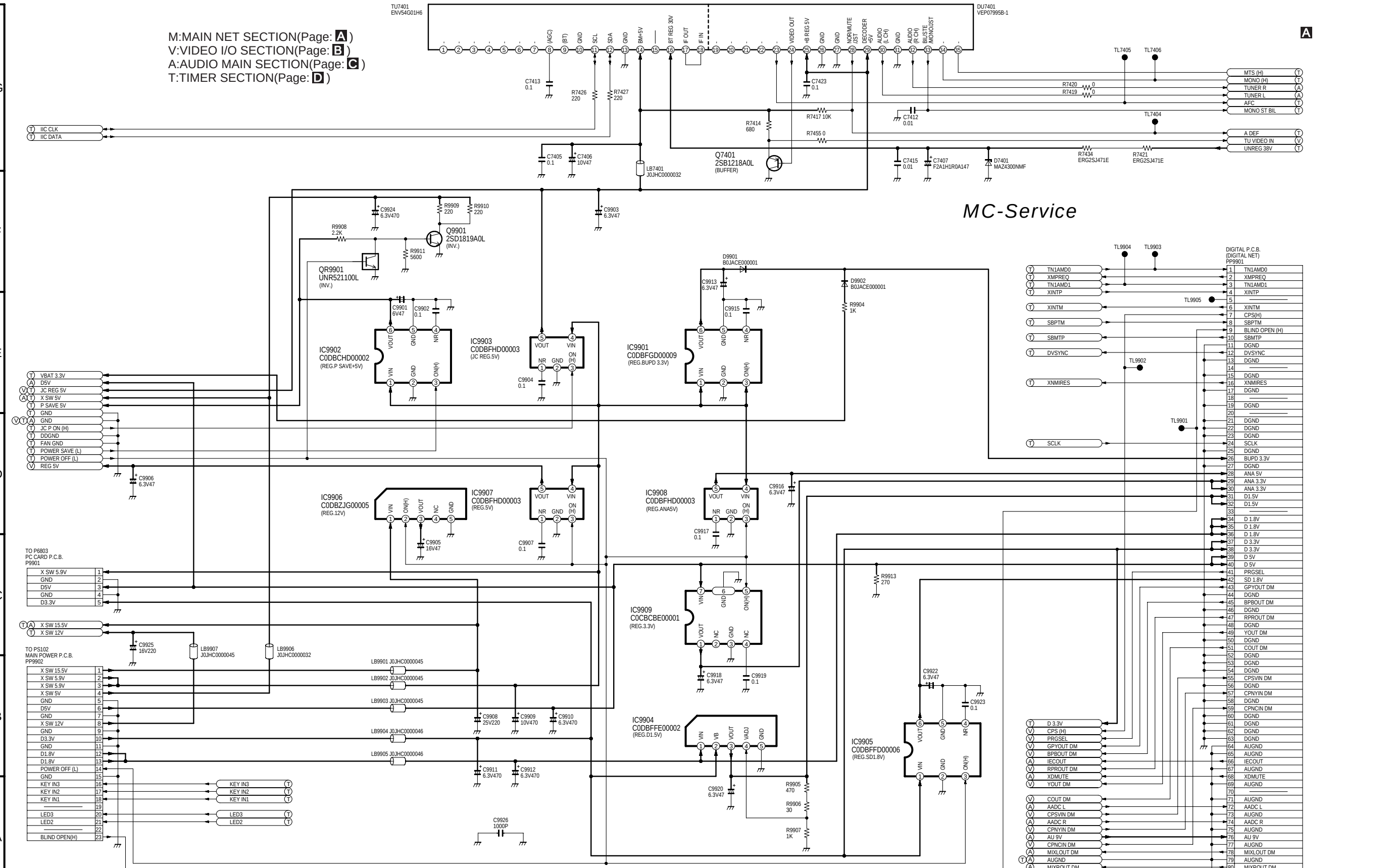
MC-Service

TO PC CARD CONNECTOR P6802	
1	GND
2	D3
3	D4
4	D5
5	D6
6	D7
7	XCE1
8	A10
9	XOE
10	A11
11	A9
12	A8
13	A13
14	A14
15	XWE
16	READY
17	VCC
18	VPP
19	A16
20	A15
21	A12
22	A7
23	A6
24	A5
25	A4
26	A3
27	A2
28	A1
29	A0
30	D0
31	D1
32	D2
33	WP
34	GND
35	GND
36	XCD1
37	D11
38	D12
39	D13
40	D14
41	D15
42	XCE2
43	XVS1
44	RFU
45	RFU
46	A17
47	A18
48	A19
49	A20
50	A21
51	VCC
52	VPP
53	A22
54	A23
55	A24
56	A25
57	XVS2
58	RESET
59	XWAIT
60	RFU
61	XREG
62	BVD2
63	BVD1
64	D8
65	D9
66	D10
67	XCD2
68	GND



Ref No. MODE	P9001																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	4.8	0	4.8	-	5.0	3.1	4.8	0	5.0	0	0.3	0	-	0	2.2	0	-	0	-
PLAY	0	4.9	0	4.9	-	5.1	3.3	4.9	0	5.1	0	0.3	0	-	0	2.2	0	-	0	-
STOP	0	4.9	0	4.9	-	5.1	3.3	4.9	0	5.1	0	0.3	0	-	0	2.2	0	-	0	-
Ref No. MODE	P9001																			
	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	0	0	0	4.8	0	3.5	0	5.1	3.3	3.3	1.5	1.5	-	1.7	1.7	1.7	3.2	3.2	5.0	5.0
PLAY	0	0	0	4.9	0	3.5	0	5.0	3.3	3.3	1.5	1.5	-	1.8	1.8	1.8	3.3	3.3	5.1	5.1
STOP	0	0	0	4.9	0	3.5	0	5.0	3.3	3.3	1.5	1.5	-	1.8	1.8	1.8	3.3	3.3	5.1	5.1
Ref No. MODE	P9001																			
	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	0	1.8	2.0	0	1.9	0	1.9	0	1.2	0	1.2	0	0	0	3.0	0	3.0	0	2.0	0
PLAY	4.8	1.8	1.8	0	1.9	0	1.9	0	1.0	0	1.3	0	0	0	3.1	0	3.1	0	2.0	0
STOP	4.8	1.8	1.8	0	1.9	0	1.9	0	1.0	0	1.3	0	0	0	3.1	0	3.1	0	2.0	0
Ref No. MODE	P9001																			
	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	0	0	0	0	0	1.5	0	2.2	0	-	0	6.0	0	6.0	0	9.1	0	2.5	0	2.5
PLAY	0	0	0	0	0	1.6	0	0	0	-	0	6.1	0	6.1	0	9.0	0	2.5	0	2.5
STOP	0	0	0	0	0	1.6	0	0	0	-	0	6.1	0	6.1	0	9.0	0	2.5	0	2.5

M:MAIN NET SECTION(Page: **A**)
V:VIDEO I/O SECTION(Page: **B**)
A:AUDIO MAIN SECTION(Page: **C**)
T:TIMER SECTION(Page: **D**)



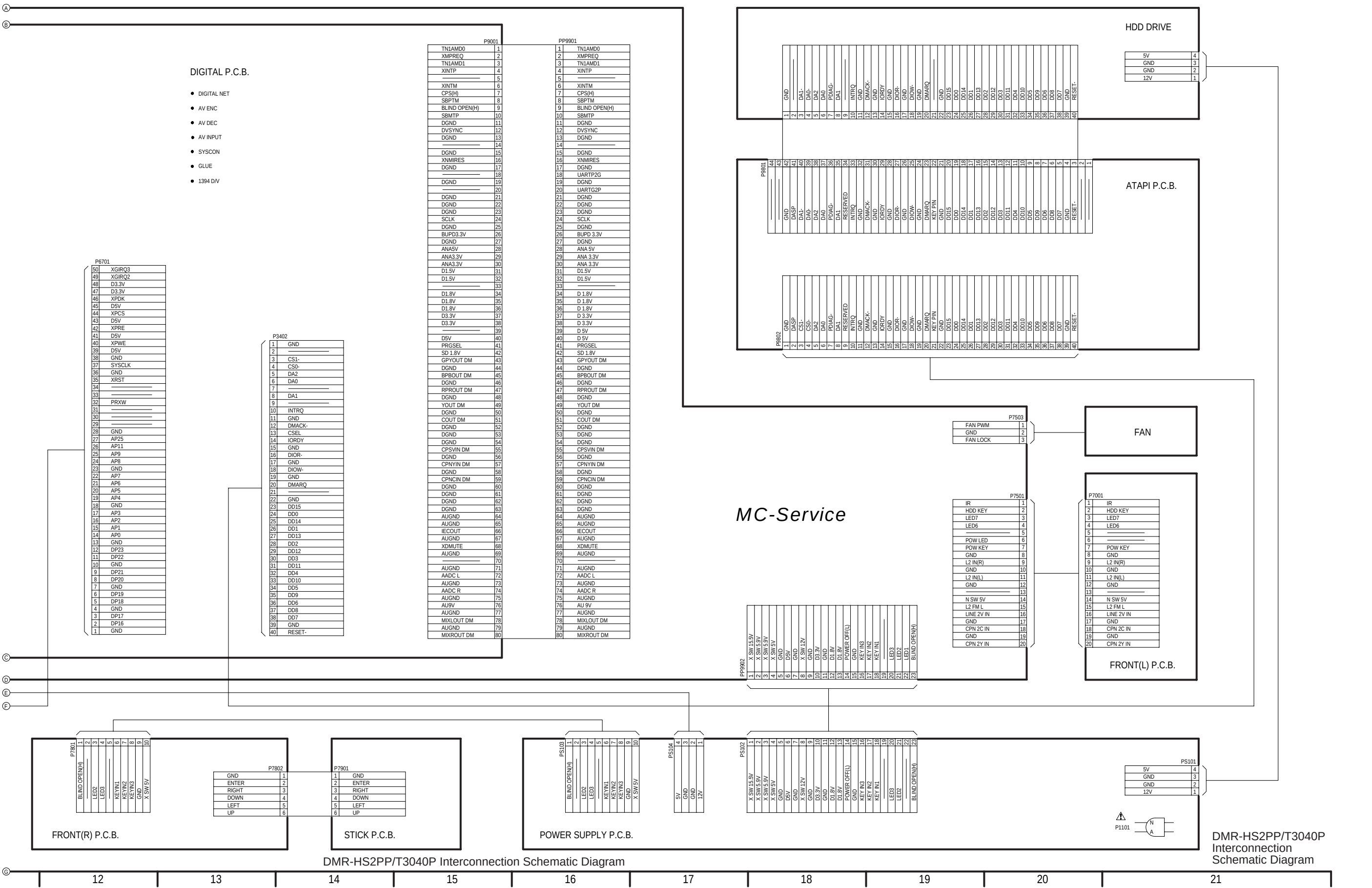
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-HS2PP/T3040P
Main Net Section (Main P.C.B. (1/4)) Schematic Diagram (M)

Ref No.	IC4012																			
MODE	1	2	3	4	5	6	7	8												
REC	6.1	6.1	6.1	0	6.1	6.1	6.1	12.1												
PLAY	6.1	6.1	6.1	0	6.1	6.1	6.1	12.1												
STOP	6.1	6.1	6.1	0	6.1	6.1	6.1	12.1												
Ref No.	IC7501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	-	-	-	-25.5	-25.5	-25.4	-25.4	-25.4	-25.4	-25.4	-25.4	-25.5	4.8	3.5	4.3	4.1	0	0	5.0	2.3
PLAY	-	-	-	-25.4	-25.5	-25.4	-25.3	-25.4	-25.3	-25.4	-25.3	-25.4	4.9	3.5	4.3	4.1	0	0	4.9	2.1
STOP	-	-	-	-25.4	-25.4	-25.3	-25.3	-25.3	-25.3	-25.3	-25.3	-25.3	4.9	3.5	4.3	4.1	0	0	4.9	2.1
Ref No.	IC7501																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	2.3	0	-28.6	-28.5	-25.4	-28.7	-22.2	-25.4	-25.4	-25.4	-15.6	-28.8	-28.7	-28.7	-25.4	-25.4	-25.4	-25.4	-22.1	-18.9
PLAY	2.1	0	-28.6	-28.6	-25.4	-28.6	-28.6	-25.4	-25.4	-22.1	-18.8	-28.8	-28.6	-22.1	-25.4	-25.3	-28.6	-25.4	-15.5	-18.8
STOP	2.1	0	-28.6	-28.6	-25.4	-28.6	-28.6	-25.3	-28.6	-22.0	-28.8	-28.6	-25.4	-22.1	-28.6	-28.6	-25.4	-22.1	-25.4	-25.4
Ref No.	IC7501																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	-15.6	-12.3	-22.1	-22.1	-22.2	-18.9	-22.1	-18.9	-15.6	-12.4	-25.4	-25.4	-25.4	-25.4	-25.4	-25.4	-18.9	-18.8	-22.1	4.9
PLAY	-22.1	-18.8	-22.1	-22.1	-25.4	-22.1	-18.9	-18.8	-18.9	-12.3	-25.4	-28.6	-28.6	-22.1	-25.4	-28.6	-18.9	-12.3	-25.4	4.9
STOP	-28.6	-18.8	-22.1	-25.4	-25.4	-22.1	-22.1	-22.1	-25.4	-22.1	-25.4	-28.6	-25.4	-25.4	-25.4	-28.6	-22.1	-22.1	-28.6	4.9
Ref No.	IC7501																			
MODE	61	62	63	64																
REC	-28.7	-28.7	-28.7	-28.7																
PLAY	-28.6	-28.6	-28.6	-28.6																
STOP	-28.6	-28.6	-28.6	-28.6																
Ref No.	IC7502																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	4.8	4.8	4.8	-	-	4.6	4.9	4.9	0	0	4.8	2.4	0	4.8	0	4.8	0	4.8	0	0
PLAY	4.8	4.8	4.8	-	-	4.6	4.9	4.9	0	0	4.8	2.4	0	4.8	0	4.8	0	4.8	0	0
STOP	4.8	4.8	4.8	-	-	4.6	4.9	4.9	0	0	4.8	2.4	0	4.8	0	4.8	0	4.8	0	0
Ref No.	IC7502																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	2.5	0	0	4.8	5.0	4.8	4.8	4.8	4.8	0	4.8	0	0	4.8	1.4	1.3	4.8	2.0	2.0	0
PLAY	2.5	0	0	4.8	5.0	4.8	4.8	4.8	4.8	0	4.8	0	0	4.8	1.4	1.3	4.8	2.0	2.0	0
STOP	2.5	0	0	4.8	5.0	4.8	4.8	4.8	4.8	0	4.8	0	0	4.8	1.4	1.3	4.8	2.0	2.0	0
Ref No.	IC7502																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	4.7	4.7	0	4.6	0	0	0	0	0	0	0	0	5.0	0	2.6	1.0	0	4.0	0	4.4
PLAY	4.7	4.7	0	4.6	0	0	0	0	0	0	0	0	5.0	0	2.6	1.0	0	4.0	0	4.4
STOP	4.7	4.7	0	4.6	0	0	0	0	0	0	0	0	5.0	0	2.6	1.0	0	4.0	0	4.4
Ref No.	IC7502																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	4.4	4.4	4.3	4.4	4.8	5.0	4.8	4.4	4.8	4.3	4.8	4.8	0	0	4.7	0	-	5.0	4.4	0
PLAY	4.4	4.4	4.3	4.4	4.8	5.0	4.8	4.4	4.8	4.3	4.8	4.8	0	0	4.7	0	-	5.0	4.4	0
STOP	4.4	4.4	4.3	4.4	4.8	5.0	4.8	4.4	4.8	4.3	4.8	4.8	0	0	4.7	0	-	5.0	4.4	0
Ref No.	IC7502																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC	0	0	0	0	4.8	0	4.8	0	4.6	-	-	-	0	0	0	-	-	5.0	4.8	4.8
PLAY	0	0	0	0	4.8	0	4.8	0	4.6	-	-	-	0	0	0	-	-	5.0	4.8	4.8
STOP	0	0	0	0	4.8	0	4.8	0	4.6	-	-	-	0	0	0	-	-	5.0	4.8	4.8
Ref No.	IC7503				IC7505				IC7507											
MODE	1	2	3			1	2	3	4				1	2	3	4	5	6	7	8
REC	5.0	0	4.8			2.2	3.3	-	0				6.3	2.4	2.4	0	2.4	2.4	2.4	15.9
PLAY	5.0	0	4.8			2.2	3.3	-	0				6.3	2.4	2.4	0	2.4	2.4	2.4	15.9
STOP	5.0	0	4.8			2.2	3.3	-	0				6.3	2.4	2.4	0	2.4	2.4	2.4	15.9

Ref No. MODE	IC9901							IC9902							IC9903						
REC	6.5	0	6.5	1.2	0	3.6		6.5	0	4.2	2.2	0	5.0		1.2	0	4.8	6.5	5.0		
PLAY	6.5	0	6.5	1.2	0	3.6		6.5	0	4.2	2.2	0	5.0		1.2	0	4.8	6.5	5.0		
STOP	6.5	0	6.5	1.2	0	3.6		6.5	0	4.2	2.2	0	5.0		1.2	0	4.8	6.5	5.0		
Ref No. MODE	IC9904							IC9905							IC9906						
REC	1.8	3.3	1.5	0	0			3.2	0	4.2	1.2	0	1.8		15.9	4.2	12.1	-	0		
PLAY	1.8	3.3	1.5	0	0			3.2	0	4.2	1.2	0	1.8		15.9	4.2	12.1	-	0		
STOP	1.8	3.3	1.5	0	0			3.2	0	4.2	1.2	0	1.8		15.9	4.2	12.1	-	0		
Ref No. MODE	IC9907							IC9908							IC9909						
REC	1.2	0	4.2	6.5	5.0			1.2	0	4.2	6.5	5.0		3.3	-	0	1.9	4.2	0	5.0	
PLAY	1.2	0	4.2	6.5	5.0			1.2	0	4.2	6.5	5.0		3.3	-	0	1.9	4.2	0	5.0	
STOP	1.2	0	4.2	6.5	5.0			1.2	0	4.2	6.5	5.0		3.3	-	0	1.9	4.2	0	5.0	
Ref No. MODE	Q3001			Q3002			Q3003			Q3007			Q3008								
REC	1.8	0	1.2	1.8	0	1.1		2.6	0	1.9	2.5	0	1.8	1.9	5.0	2.5					
PLAY	1.8	0	1.2	1.8	0	1.2		2.8	0	2.1	2.5	0	1.9	1.9	5.0	2.5					
STOP	1.8	0	1.2	1.6	0	1.0		2.5	0	1.8	2.5	0	1.9	1.9	5.0	2.5					
Ref No. MODE	Q3009			Q3010			Q4004			Q4006			Q4007								
REC	2.5	0	1.8	1.9	5.0	2.5		5.0	-0.4	5.1	0	0	-0.4	0	0	-0.3					
PLAY	2.6	0	1.9	1.9	5.0	2.5		5.0	-12.3	5.1	0	0	-0.8	0	0	-7.1					
STOP	2.5	0	1.8	1.9	5.0	2.5		5.0	5.0	4.4	0	0	0.7	0	0	0.7					
Ref No. MODE	Q4008			Q4009			Q7401			Q7501			Q7502								
REC	0	0	-0.4	0	0	-0.4		3.7	0	3.0	0	6.9	-1.0	0	-1.0	-1.3					
PLAY	0	0	-0.4	0	0	-0.4		3.7	0	3.0	0	6.9	-1.0	0	-1.0	-1.3					

Ref No.	IC3004																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	4.9	2.2	-	2.7	2.7	2.2	2.2	2.7	2.7	2.7	2.2	2.5	2.7	2.7	2.7	2.2	0	2.2	0	4.1
PLAY	4.9	2.2	-	2.7	2.7	2.2	2.2	2.7	2.7	2.7	2.2	2.3	2.7	2.7	2.7	2.2	0	2.2	0	4.1
STOP	4.9	2.2	-	2.7	2.7	2.2	2.2	2.7	2.7	2.7	2.2	2.3	2.7	2.7	2.7	2.2	0	2.2	0	4.1
Ref No.	IC3004																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36				
REC	4.0	0	1.3	1.0	0.8	1.5	2.0	2.0	2.0	1.8	2.0	2.2	2.7	2.7	2.7	2.8				
PLAY	4.0	0	1.3	0.8	0.8	1.5	2.0	2.0	2.0	1.6	1.6	2.2	2.7	2.7	2.7	2.8				
STOP	4.0	0	1.3	1.4	0.8	1.5	2.0	2.0	2.0	1.6	1.6	2.2	2.7	2.7	2.7	2.8				
Ref No.	IC3005																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	2.0	4.9	2.7	0	2.5	4.9	0	2.5	0	1.9	4.9	2.8	0	2.8	4.9	2.1	2.2	-	2.2	0
PLAY	2.0	4.9	2.7	0	2.5	4.9	0	2.5	0	1.9	4.9	2.8	0	2.8	4.9	2.1	2.2	-	2.2	0
STOP	2.0	4.9	2.7	0	2.5	4.9	0	2.4	0	1.8	4.9	2.8	0	2.8	4.9	2.1	2.2	-	2.2	0
Ref No.	IC3005																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
REC	1.9	1.9	0	2.0	2.0	0	1.9	0	2.0	2.0	0	2.2								
PLAY	1.9	1.9	0	2.0	2.0	0	1.9	0	2.0	2.0	0	2.2								
STOP	1.7	1.6	0	1.7	1.7	0	1.8	0	1.7	1.6	0	2.2								
Ref No.	IC4001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
REC	6.1	6.1	6.1	6.1	6.1	0	0	0	12.1	12.1	6.1	6.1	6.1	6.1	6.1	12.1				
PLAY	6.1	6.1	6.1	6.1	6.1	0	0	0	12.1	12.1	6.1	6.1	6.1	6.1	6.1	12.1				
STOP	6.1	6.1	6.1	6.1	6.1	0	0	0	12.1	12.1	6.1	6.1	6.1	6.1	6.1	12.1				
Ref No.	IC4002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
REC	6.1	6.1	6.1	6.1	6.1	0	0	0	12.1	12.1	6.1	6.1	6.1	6.1	6.1	12.1				
PLAY	6.1	6.1	6.1	6.1	6.1	0	0	0	12.1	12.1	6.1	6.1	6.1	6.1	6.1	12.1				
STOP	6.1	6.1	6.1	6.1	6.1	0	0	0	12.1	12.1	6.1	6.1	6.1	6.1	6.1	12.1				
Ref No.	IC4003								IC4006				IC4007							
MODE	1	2	3	4	5	6	7	8		1	2	3		1	2	3	4	5		
REC	6.1	6.1	6.1	0	6.1	6.1	6.1	12.1		0	5.0	2.5		-	1.5	0	2.5	5.0		
PLAY	6.1	6.1	6.1	0	6.1	6.1	6.1	12.1		0	5.0	2.5		-	1.5	0	2.5	5.0		
STOP	6.1	6.1	6.1	0	6.1	6.1	6.1	12.1		0	5.0	2.5		-	1.5	0	2.5	5.0		
Ref No.	IC4009								IC4010						IC4011					
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5		1	2	3		
REC	6.1	6.1	6.1	0	6.1	6.1	6.1	12.1		15.5	10.0	12.0	-	0		9.0	0	12.0		
PLAY	6.1	6.1	6.1	0	6.1	6.1	6.1	12.1		15.5	10.0	12.0	-	0		9.0	0	12.0		
STOP	6.1	6.1	6.1	0	6.1	6.1	6.1	12.1		15.5	10.0	12.0	-	0		9.0	0	12.0		



G

F

E

D

C

B

A

DIGITAL JIG

P6002	
1	SEL
2	SEL
3	MSDTX
4	MSDRX
5	D 3.3V
6	XSCINTRQ
7	SXMNI03
8	MMRXW
9	MMXOE
10	GND
11	XMMCS7
12	XMMCS6
13	GND
14	XMMCS5
15	XMMCS4
16	GND
17	XMMCS3
18	XMMCS2
19	GND
20	XMMCS1
21	XMMCS0
22	GND
23	MMA25
24	MMA24
25	MMA23
26	MMS22
27	MMA21
28	MMA20
29	MMA19
30	MMA18
31	MMA17
32	MMA16
33	MMA15
34	MMA14
35	MMA13
36	MMA12
37	MMA11
38	MMA10
39	GND
40	MMA9
41	MMA8
42	MMA7
43	MMA6
44	MMA5
45	MMA4
46	MMA3
47	MMA2
48	MMA1
49	MMA0
50	GND
51	BW
52	BW
53	XNMI
54	XRESET
55	D3.3V
56	SSYSCLK
57	GND
58	
59	XMMDK
60	GND
61	MMXWE3
62	MMXWE2
63	GND
64	MMXWE1
65	MMXWE0
66	GND
67	MMD31
68	MMD30
69	MMD29
70	MMD28
71	MMD27
72	MMD26
73	MMD25
74	MMD24
75	MMD23
76	MMD22
77	MMD21
78	MMD20
79	MMD19
80	MMD18
81	MMD17
82	MMD16
83	GND
84	MMD15
85	MMD14
86	MMD13
87	MMD12
88	MMD11
89	MMD10
90	MMD9
91	MMD8
92	MMD7
93	MMD6
94	MMD5
95	MMD4
96	MMD3
97	MMD2
98	MMD1
99	MMD0
100	GND

P6001	
1	XDIAG
2	XRESET
3	MSORX
4	GND
5	D 3.3V
6	MSOTX

P6003	
1	
2	D3.3V
3	XRESET
4	GND
5	TDI
6	GND
7	TD0
8	GND
9	TMS
10	GND
11	GND
12	TCK
13	GND
14	GND
15	TRCD0
16	GND
17	TRCD1
18	GND
19	TRCD2
20	GND
21	TRCD3
22	GND
23	TRCD4
24	GND
25	TRCD5
26	GND
27	TRCD6
28	GND
29	TRCD7
30	GND
31	TRCST
32	GND
33	TRSTMOD
34	GND
35	EXTRG
36	GND
37	GND
38	TRCLK
39	D3.3V
40	D3.3V

U/V TUNER

TU7401	
1	
2	
3	
4	
5	
6	
7	
8	(AGC)
9	
10	
11	SCL
12	SDA
13	GND
14	BM+5V
15	BS POWER(H)
16	BT REG30V
17	IF OUT
18	IF IN
19	
20	
21	
22	
23	
24	VIDEO OUT
25	+B REG5V
26	GND
27	GND
28	NORMUTE/ JST
29	DECODER +5V
30	AUDIO(LCH)
31	GND
32	AUDIO(RCH)
33	BIU/STE/ MONO/JST
34	
35	

VIF DECODER P.C.B.

P6001	
1	X SW 5.9V
2	GND
3	D5V
4	GND
5	D3.3V

PC CARD P.C.B.

P6003	
1	X SW 5.9V
2	GND
3	D5V
4	GND
5	D3.3V

P6001	
1	XGIRQ3
2	XGIRQ2
3	
4	
5	XPDK
6	
7	XPDS
8	
9	XPRES
10	
11	XPWE
12	
13	GND
14	SSYSCLK
15	GND
16	XIRST
17	
18	
19	
20	
21	
22	
23	GND
24	AP25
25	AP11
26	AP9
27	AP8
28	GND
29	AP7
30	AP6
31	AP5
32	AP4
33	GND
34	AP3
35	AP2
36	AP1
37	AP0
38	GND
39	DP23
40	DP22
41	GND
42	DP21
43	DP20
44	GND
45	DP19
46	DP18
47	GND
48	DP17
49	DP16
50	GND

MAIN P.C.B.

- MAIN NET
- VIDEO I/O
- AUDIO MAIN
- TIMER

MC-Service

FP603	
RESET-	1
GND	2
DD7	3
DD8	4
DD6	5
DD9	6
DD5	7
DD10	8
DD4	9
DD11	10
DD3	11
DD12	12
DD2	13
DD13	14
DD1	15
DD14	16
DD0	17
DD15	18
GND	19
KEY	20
DMARQ	21
GND	22
DIOW-	23
GND	24
DIOR-	25
GND	26
IORDY	27
CSEL	28
DMACK-	29
GND	30
INTRQ	31
IOCS16-	32
DA1	33
PDIAG-	34
DA0	35
DA2	36
CS0-	37
CS1-	38
DASP-	39
GND	40

P3401	
1	RESET-
2	GND
3	DD7
4	DD8
5	DD6
6	DD9
7	DD5
8	DD10
9	DD4
10	DD11
11	DD3
12	DD12
13	DD2
14	DD13
15	DD1
16	DD14
17	DD0
18	DD15
19	GND
20	
21	DMARQ
22	GND
23	DIOW-
24	GND
25	DIOR-
26	GND
27	IORDY
28	CSEL
29	DMACK-
30	GND
31	INTRQ
32	
33	DA1
34	
35	DA0
36	DA2
37	CS0-
38	CS1-
39	
40	GND

P201	
1	12V
2	GND
3	GND
4	5V

DVD RAM DRIVE

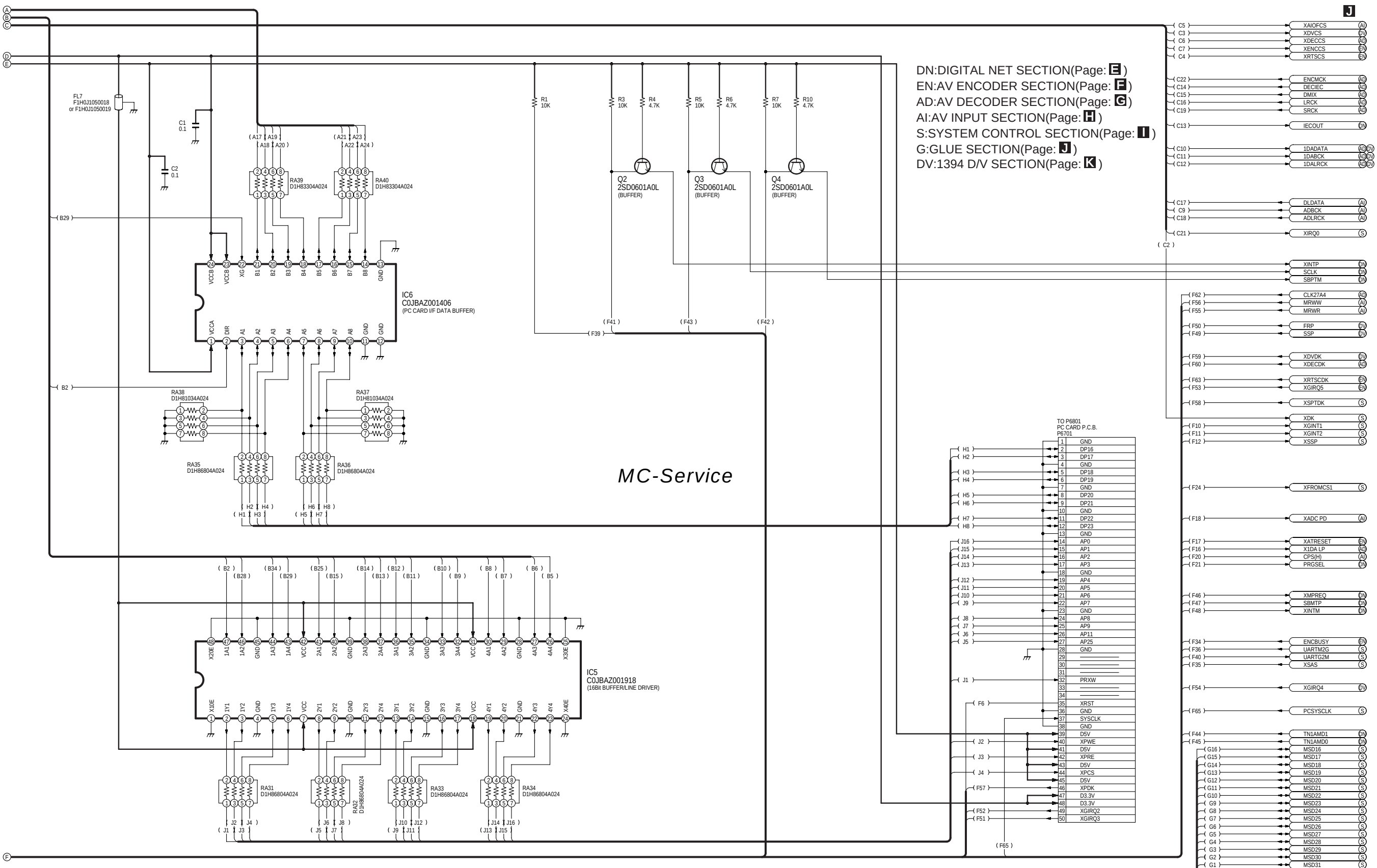
TO DV INPUT JACK (FRONT PANEL) P37003	
1	TPA+
2	TPA-
3	TPB+
4	TPB-

P37002	
GND	1
TPA+	2
GND	3
TPA-	4
GND	5
TPB+	6
GND	7
TPB-	8

DV INPUT JACK P.C.B.

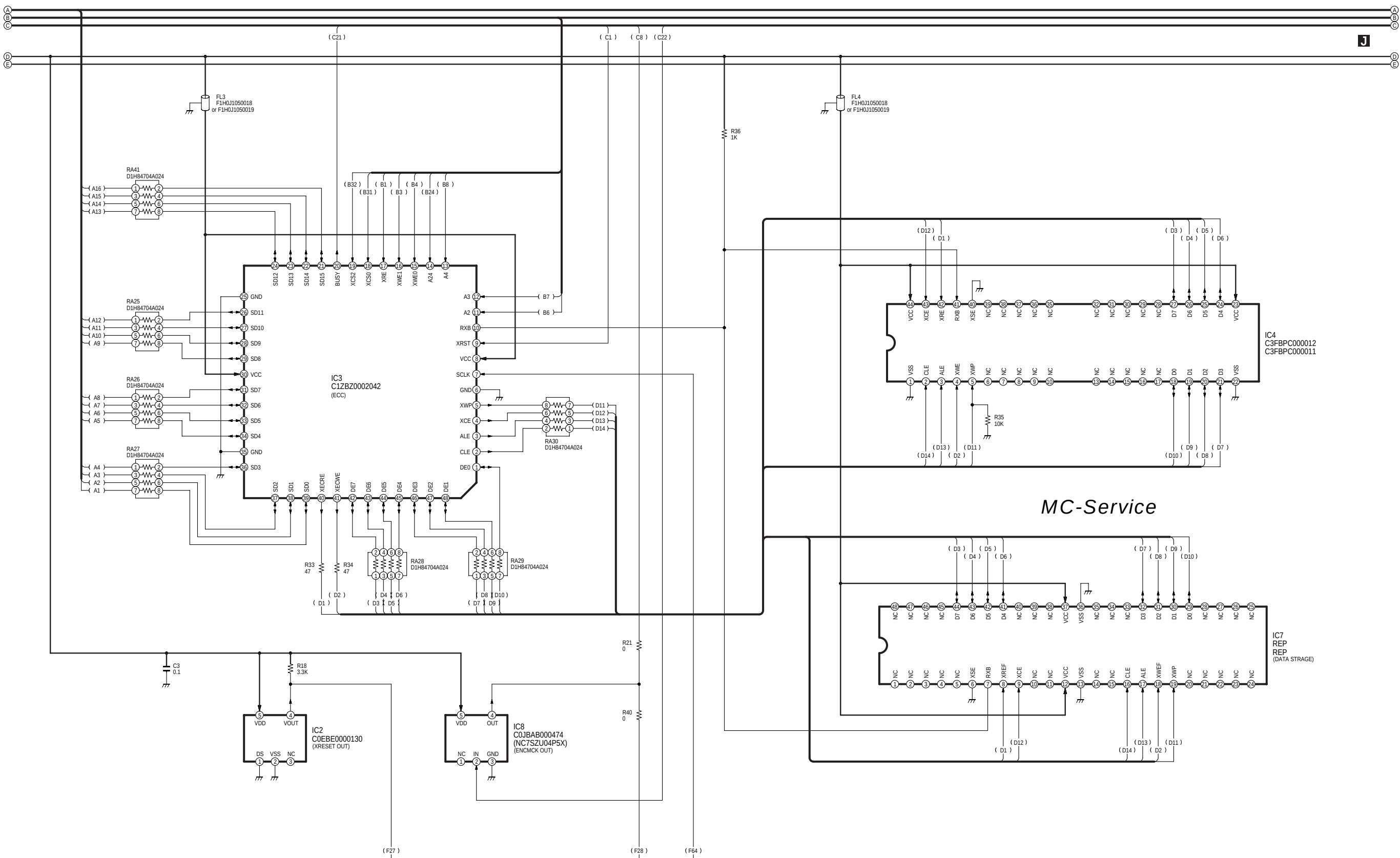
P37001	
1	GND
2	TPA+
3	GND
4	TPA-
5	GND
6	TPB+
7	GND
8	TPB-

DMR-HS2PP/T3040P
Interconnection
Schematic Diagram



DN: DIGITAL NET SECTION(Page: **E**)
EN: AV ENCODER SECTION(Page: **F**)
AD: AV DECODER SECTION(Page: **G**)
AI: AV INPUT SECTION(Page: **H**)
S: SYSTEM CONTROL SECTION(Page: **I**)
G: GLUE SECTION(Page: **J**)
DV: 1394 D/V SECTION(Page: **K**)

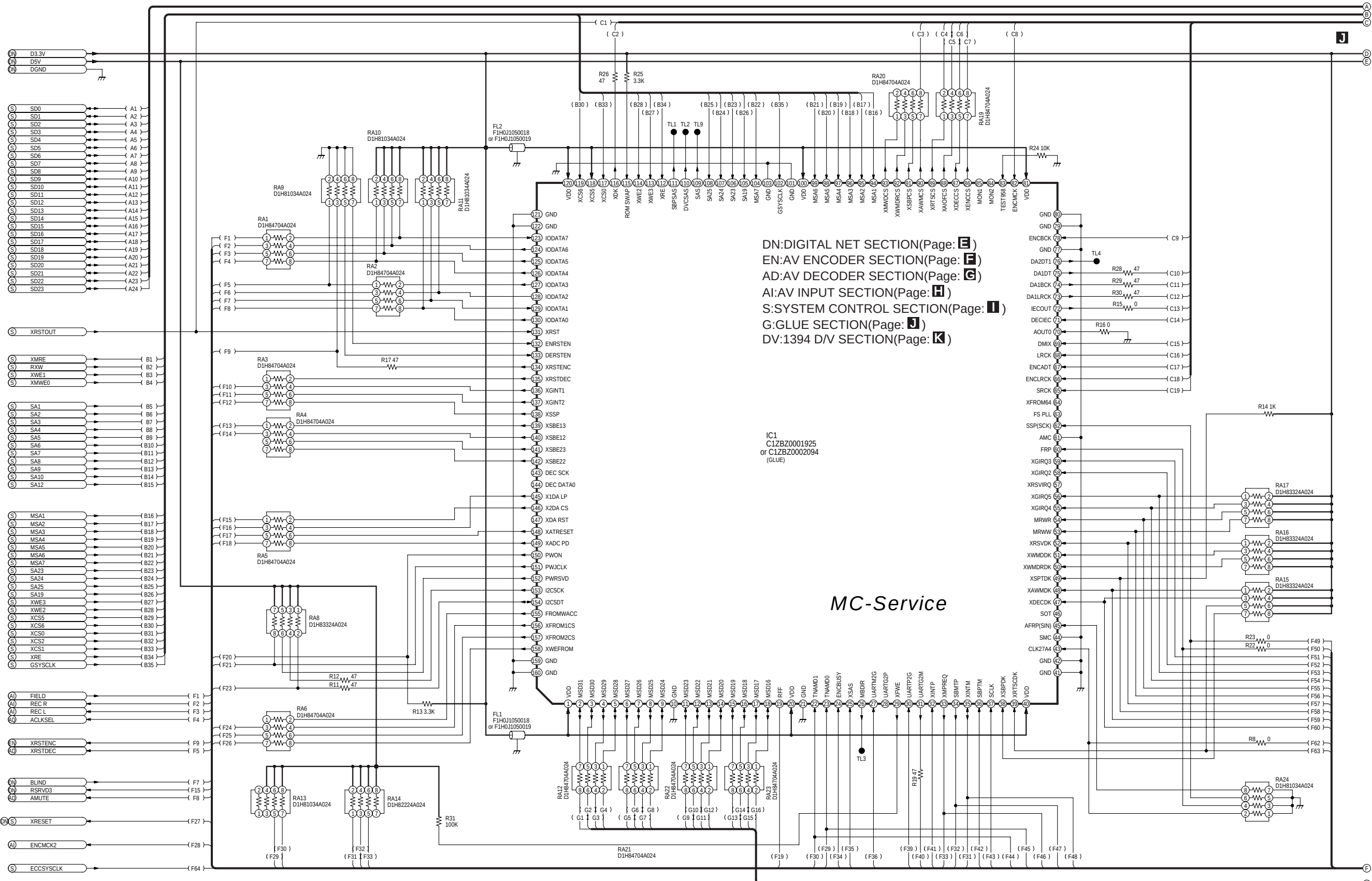
MC-Service



DMR-HS2PP/T3040P
Glue Section(Digital P.C.B.(6/7)) Schematic Diagram(G)

DMR-HS2PP/T3040P
Glue Section(Digital P.C.B.(6/7)) Schematic Diagram(G)

G
F
E
D
C
B
A



NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

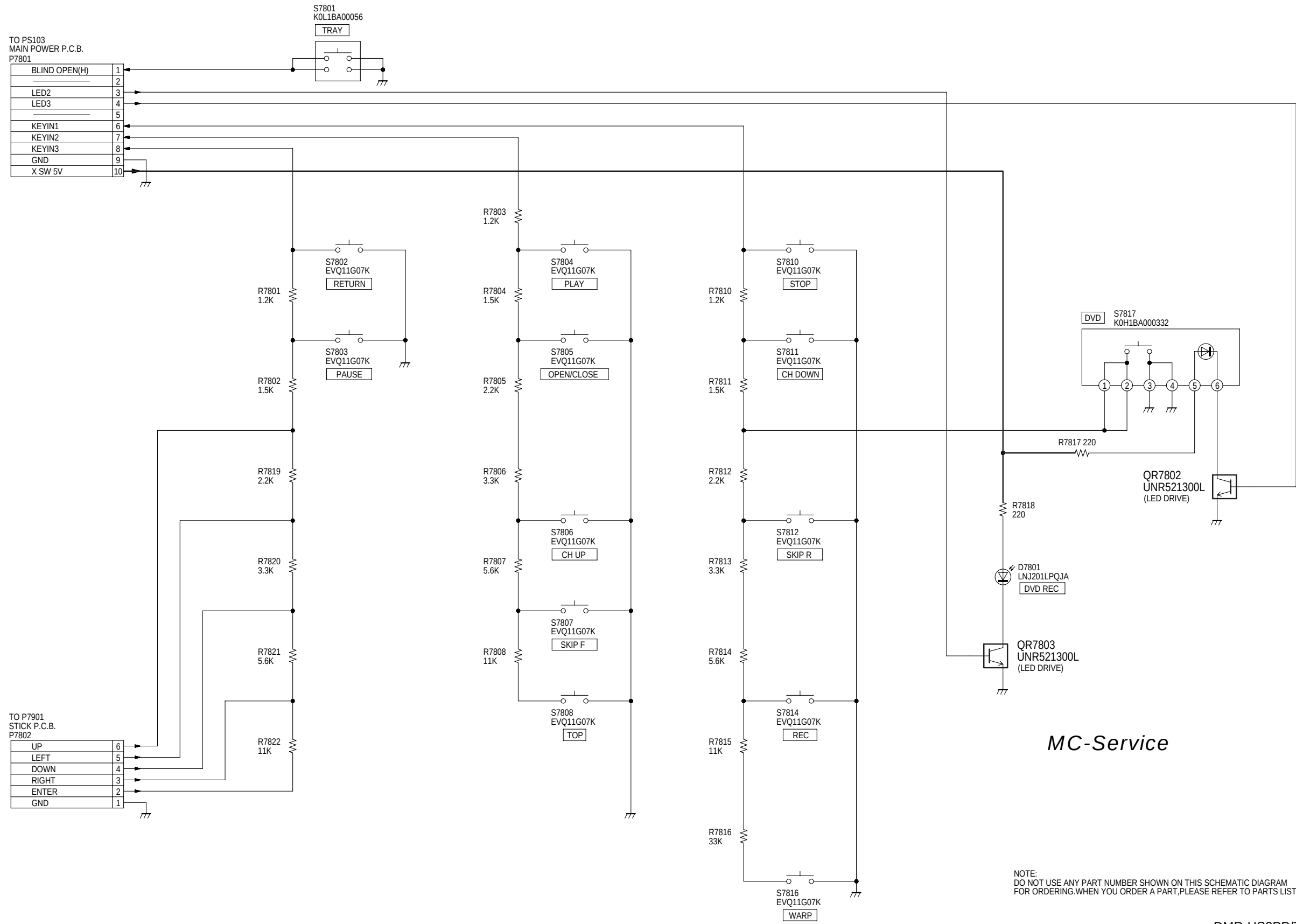
E

D

C

B

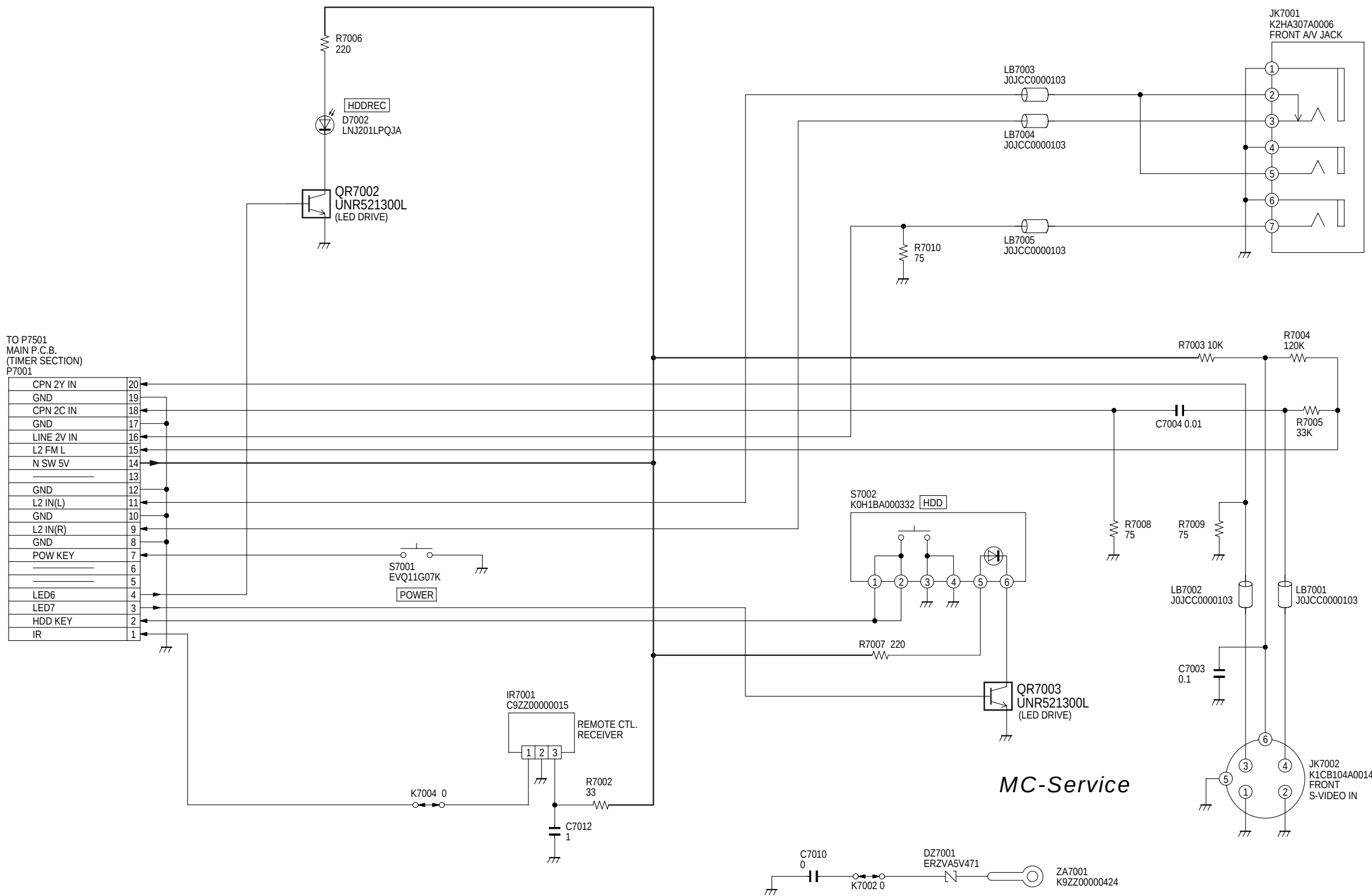
A



MC-Service

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

E
D
C
B
A



NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-HS2PP/T3040P
Front (L) Schematic Diagram

C

B

A

TO P37001
DIGITAL P.C.B.
(1394 D/V SECTION)
P37002

GND	1
TPA+	2
GND	3
TPA-	4
GND	5
TPB+	6
GND	7
TPB-	8



TO DV INPUT JACK
(FRONT PANEL)
P37003

1	TPA+
2	TPA-
3	TPB+
4	TPB-

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC
DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE
REFER TO PARTS LIST.

DMR-HS2PP/T3040P
DV Input Jack Schematic Diagram

1

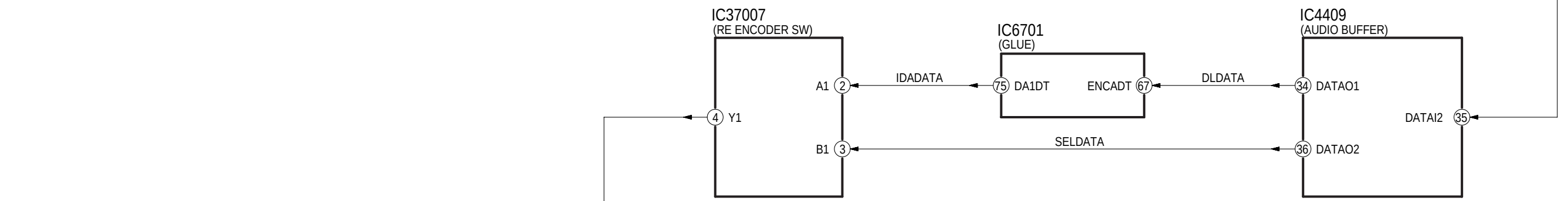
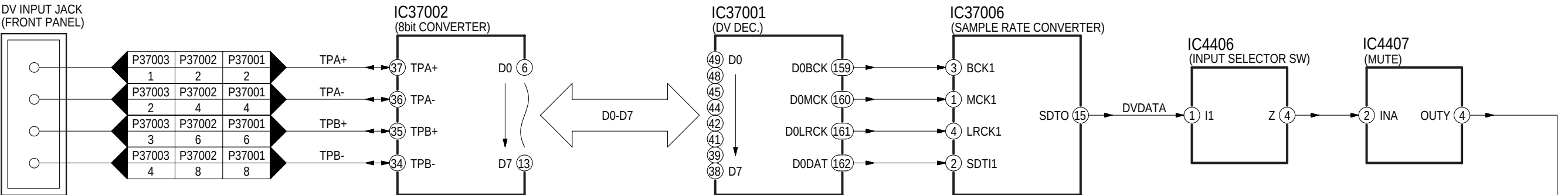
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3

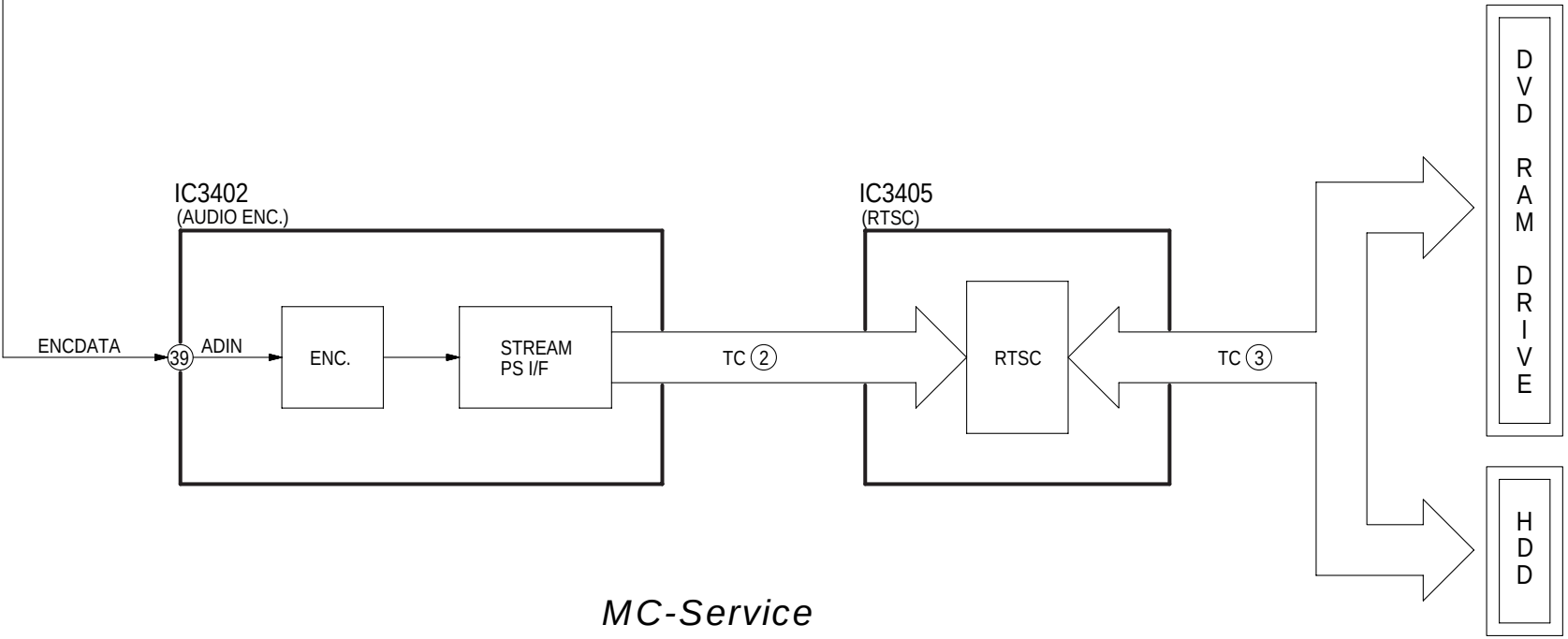
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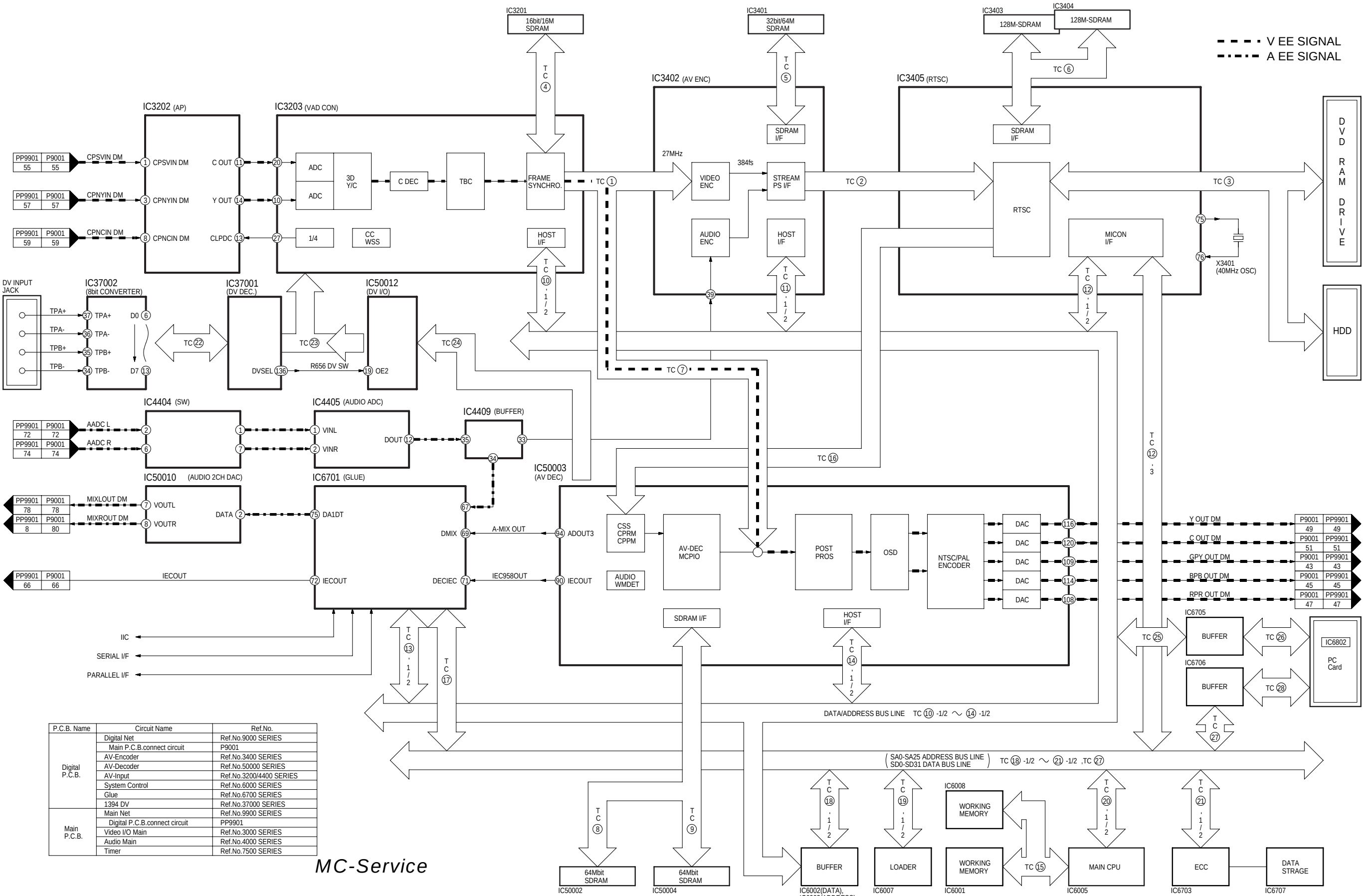
DMR-HS2PP/T3040P
Digital Net Section (Digital P.C.B. (1/7))
Schematic Diagram (DN)



P.C.B. Name	Circuit Name	Ref.No.
Digital P.C.B.	Digital Net	Ref.No.9000 SERIES
	Main P.C.B.connect circuit	P9001
	AV-Encoder	Ref.No.3400 SERIES
	AV-Decoder	Ref.No.50000 SERIES
	AV-Input	Ref.No.3200/4400 SERIES
	System Control	Ref.No.6000 SERIES
	Glue	Ref.No.6700 SERIES
	1394 DV	Ref.No.37000 SERIES
Main P.C.B.	Main Net	Ref.No.9900 SERIES
	Digital P.C.B.connect circuit	PP9901
	Video I/O Main	Ref.No.3000 SERIES
	Audio Main	Ref.No.4000 SERIES
	Timer	Ref.No.7500 SERIES



MC-Service



MC-Service

DMR-HS2PP/T3040P
Digital Section Block Diagram(1)

E

D

C

B

A

TO TU7401
PK701

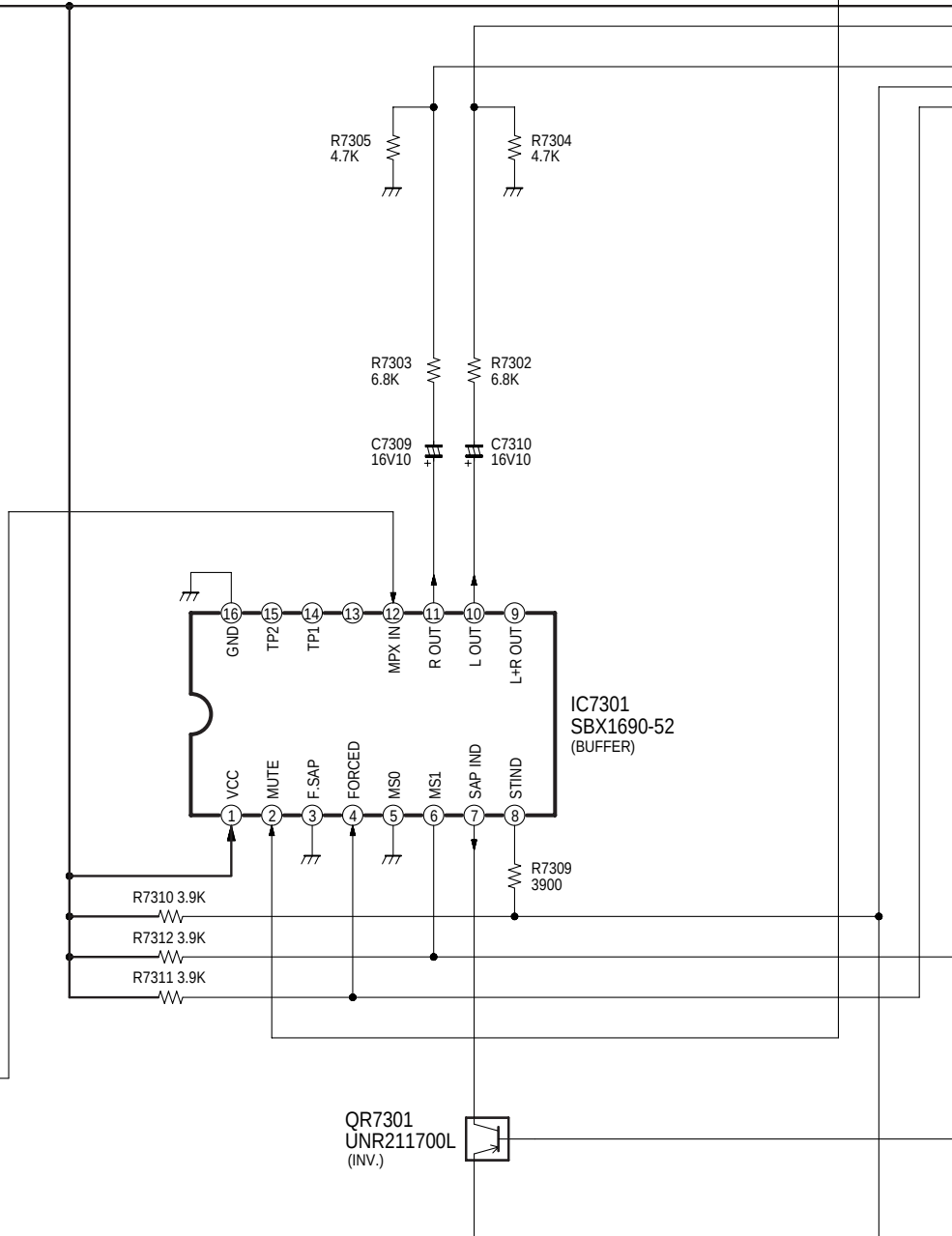
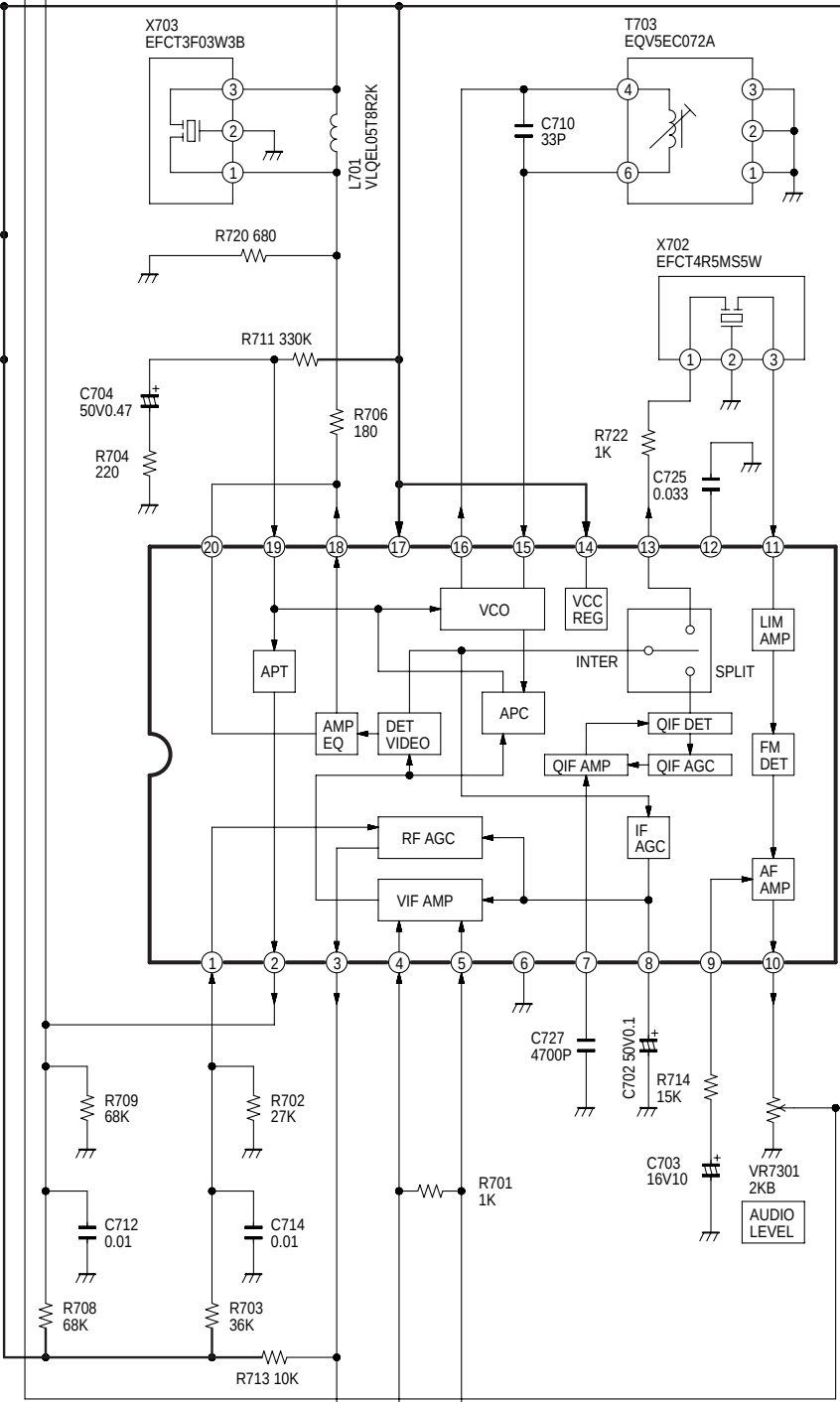
AUDIO OUT	1
	2
AFC	3
VIDEO OUT	4
+B 5V	5
GND	6
GND	7

TO TU7401
PK702

1	A DEFS
2	+B 5V
3	AUDIO L
4	GND
5	AUDIO R
6	ST M BIL (L)
7	MONO (H)
8	MTS (H)

PP701

	1
AGC	2
IF IN	3
GND	4



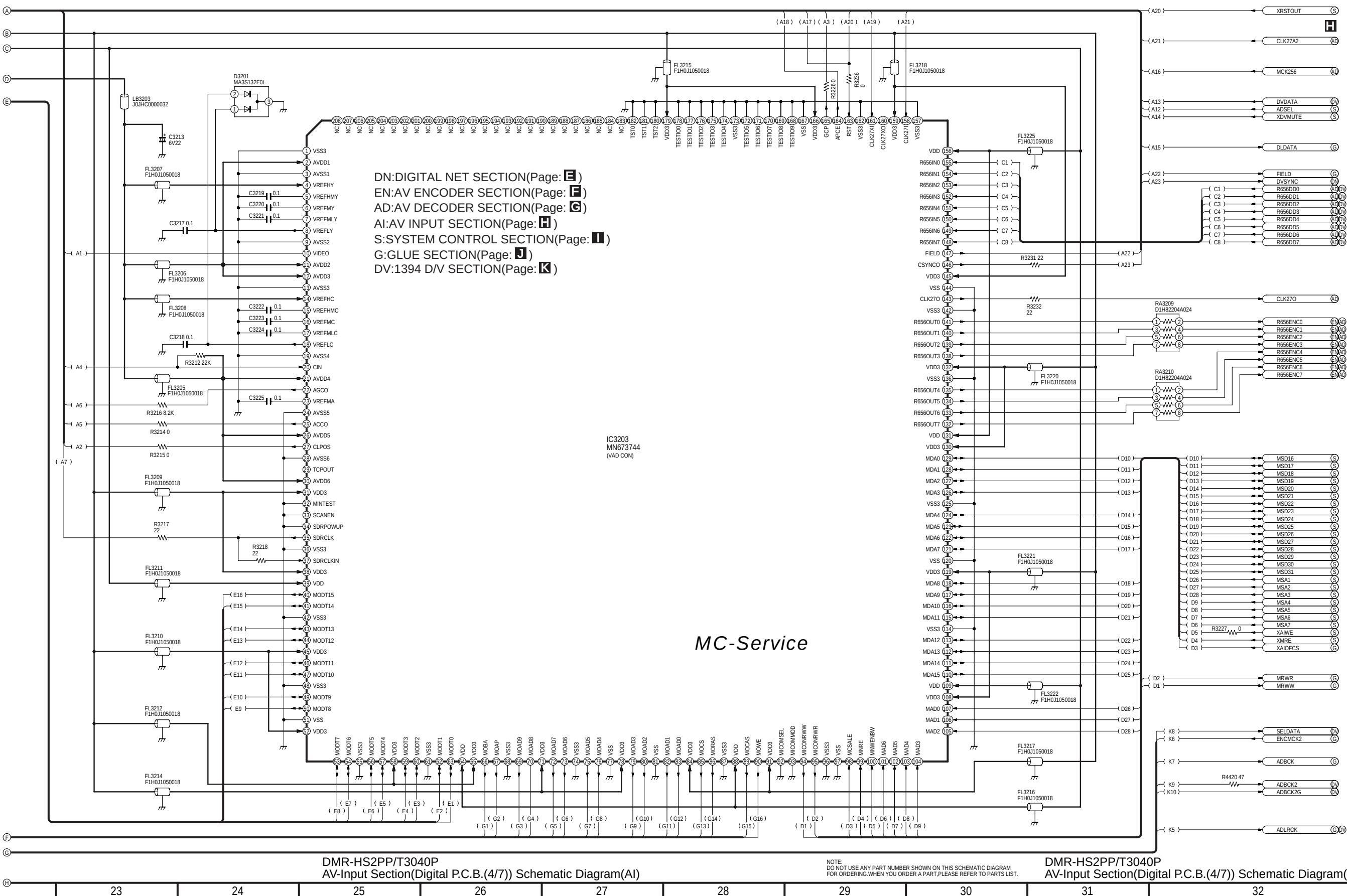
TL7390



MC-Service

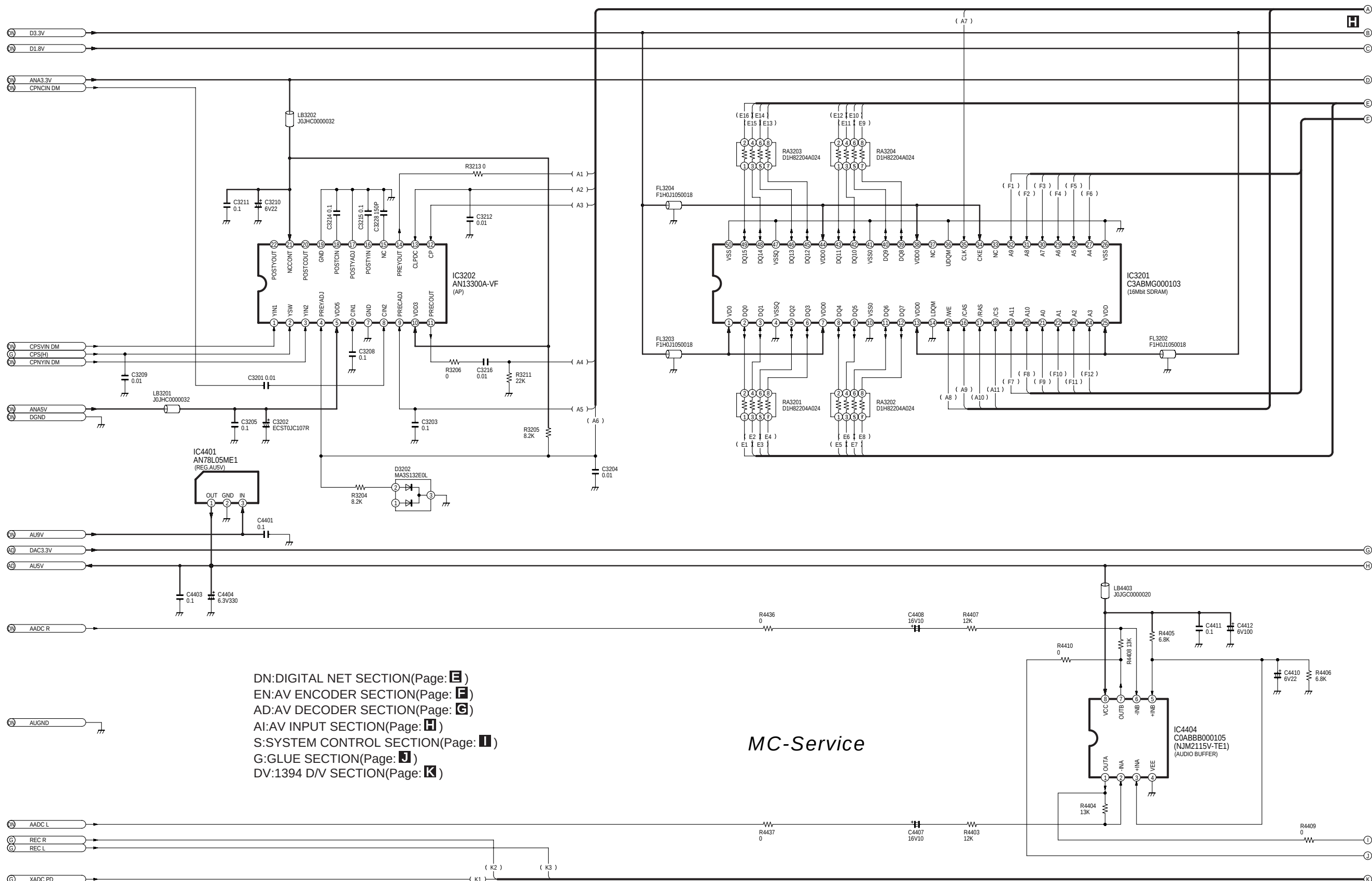
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

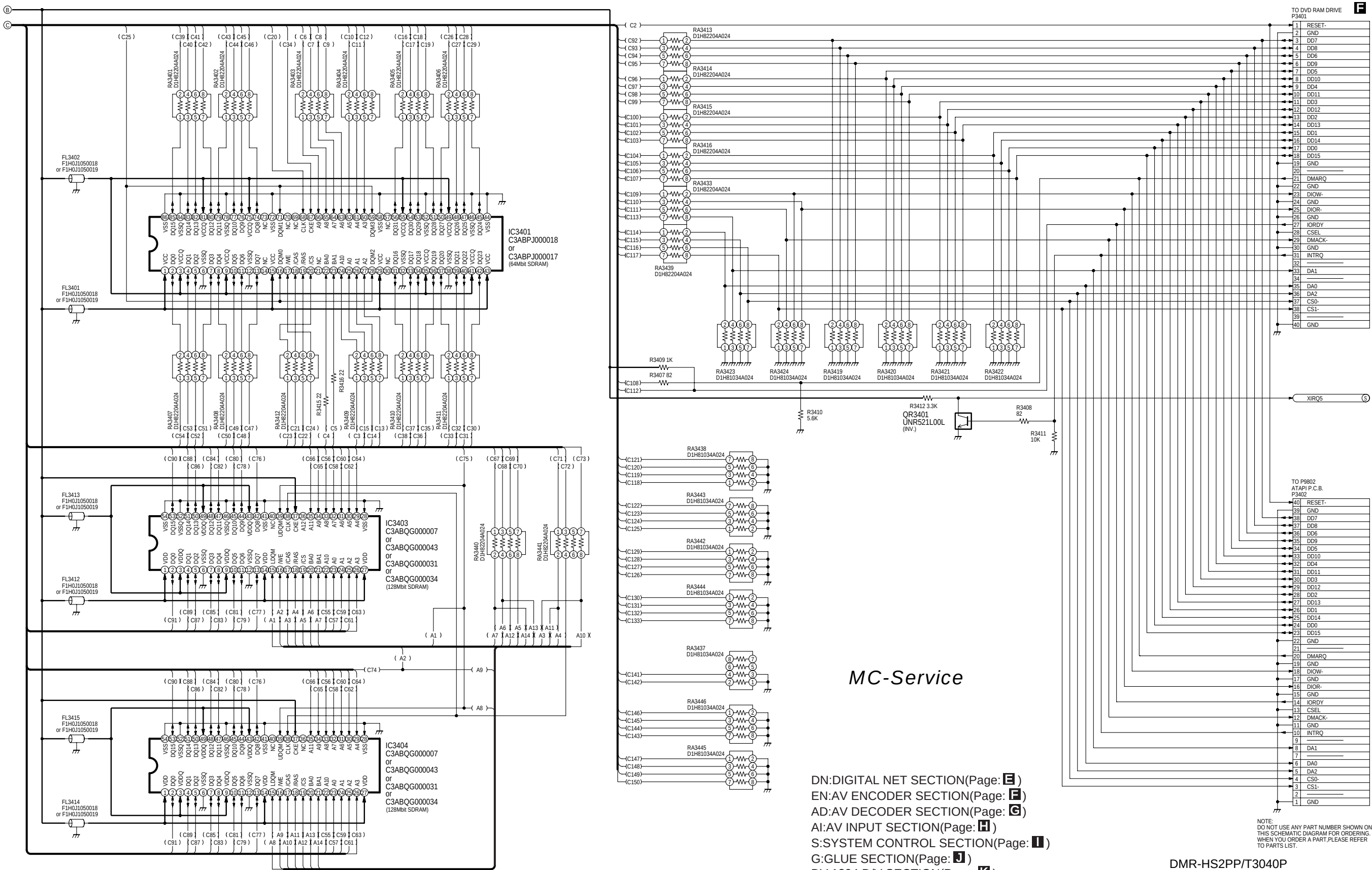
DMR-HS2PP/T3040P
Demodu/Decoder
Schematic Diagram





DMR-HS2PP/T3040P
AV-Input Section(Digital P.C.B.(4/7)) Schematic Diagram(AI)



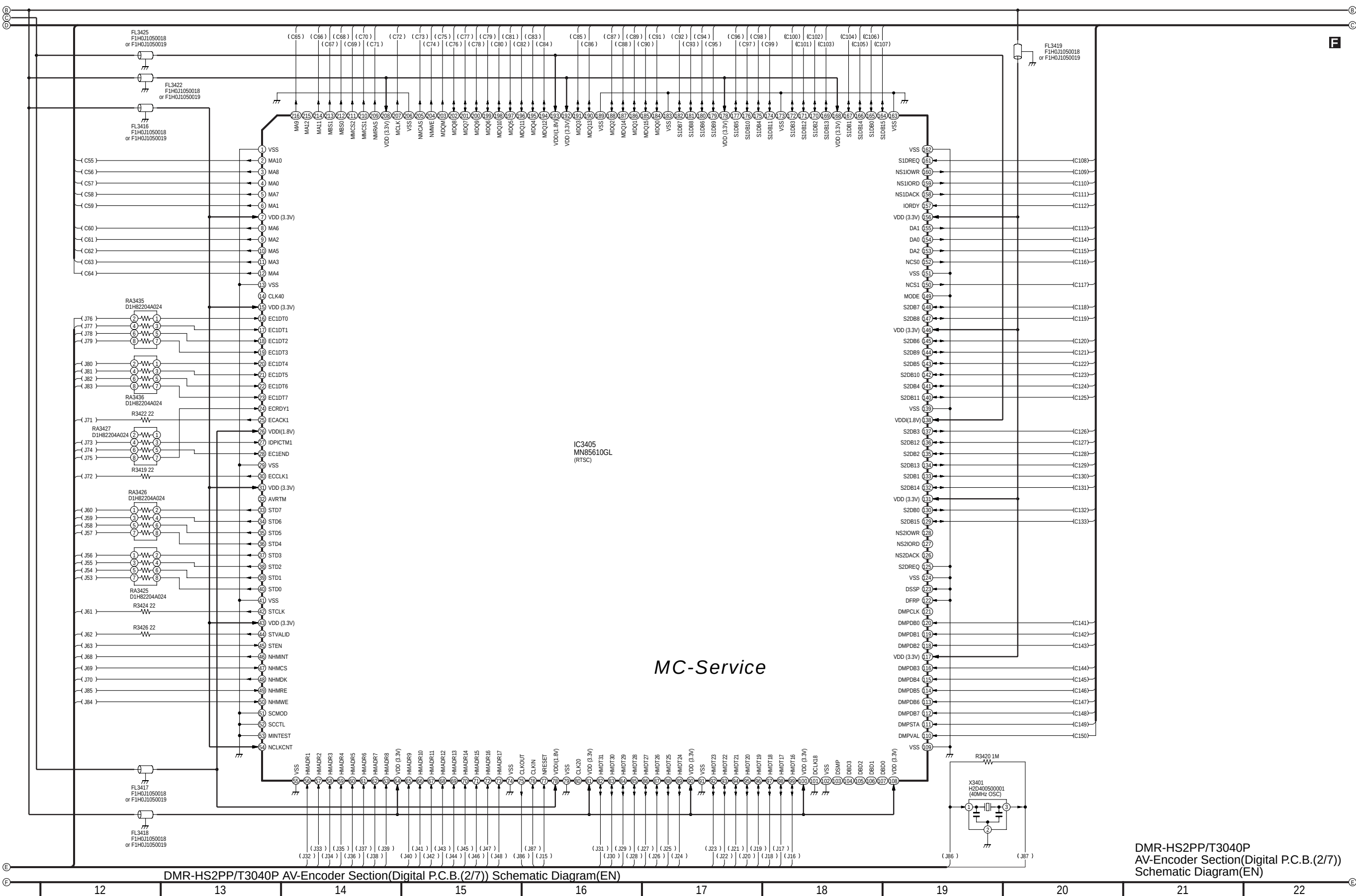


DMR-HS2PP/T3040P AV-Encoder Section(Digital P.C.B.(2/7)) Schematic Diagram(EN)

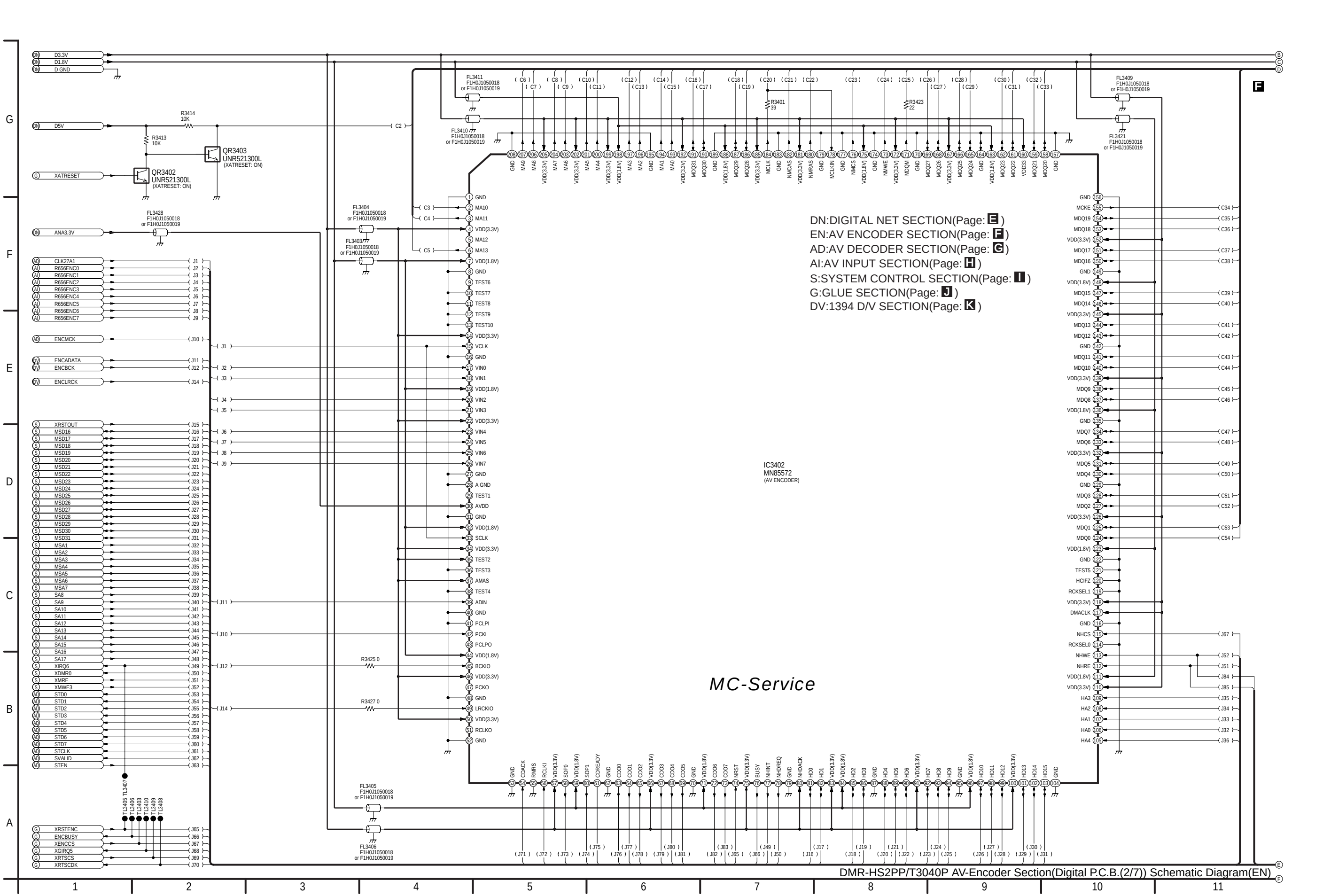
DN: DIGITAL NET SECTION (Page: **E**)
EN: AV ENCODER SECTION (Page: **F**)
AD: AV DECODER SECTION (Page: **G**)
AI: AV INPUT SECTION (Page: **H**)
S: SYSTEM CONTROL SECTION (Page: **I**)
G: GLUE SECTION (Page: **J**)
DV: 1394 D/V SECTION (Page: **K**)

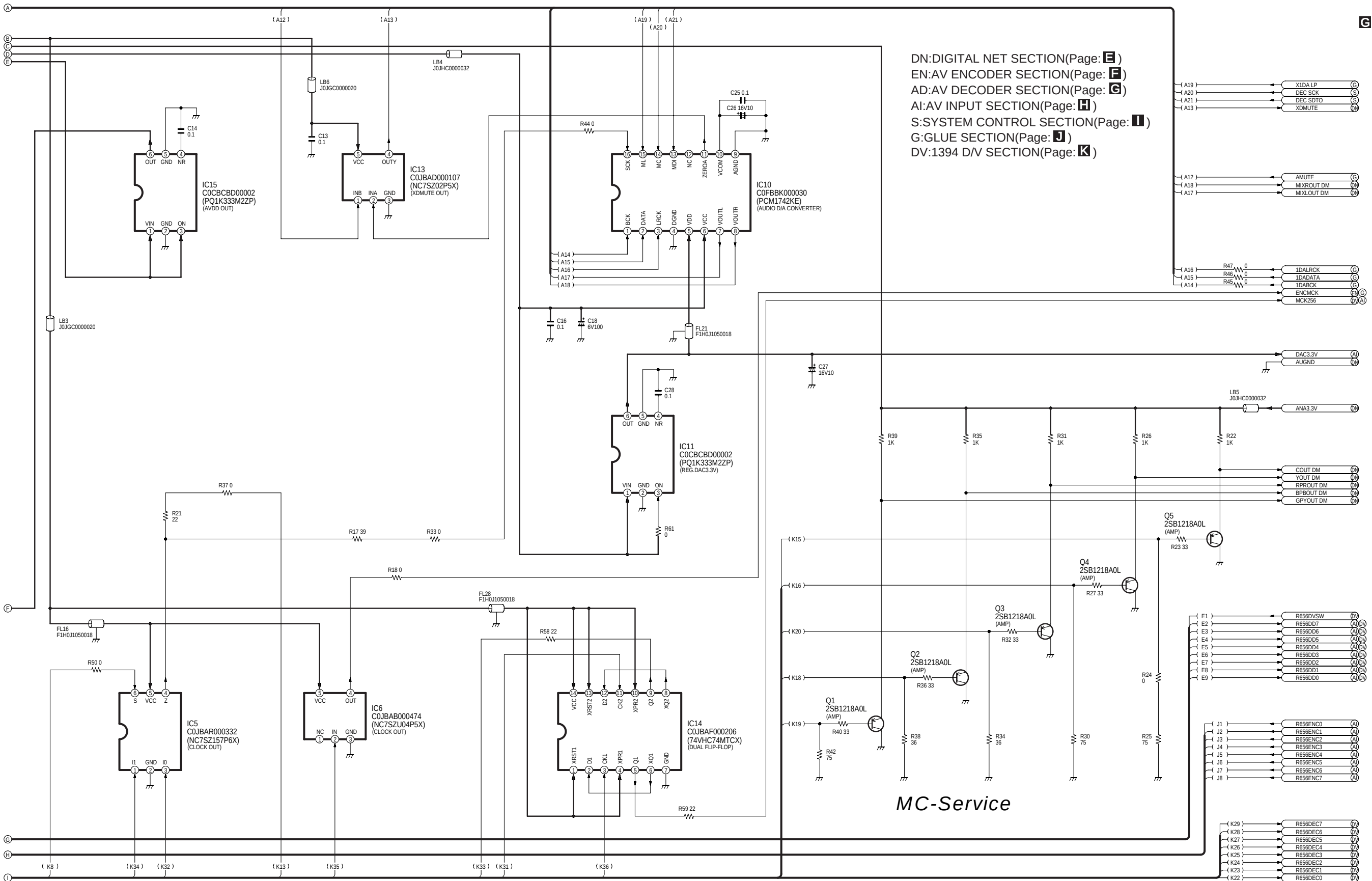
DMR-HS2PP/T3040P
AV-Encoder Section (Digital P.C.B. (2/7))
Schematic Diagram (EN)

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON
THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER
TO PARTS LIST.



DMR-HS2PP/T3040P
AV-Encoder Section(Digital P.C.B.(2/7))
Schematic Diagram(EN)

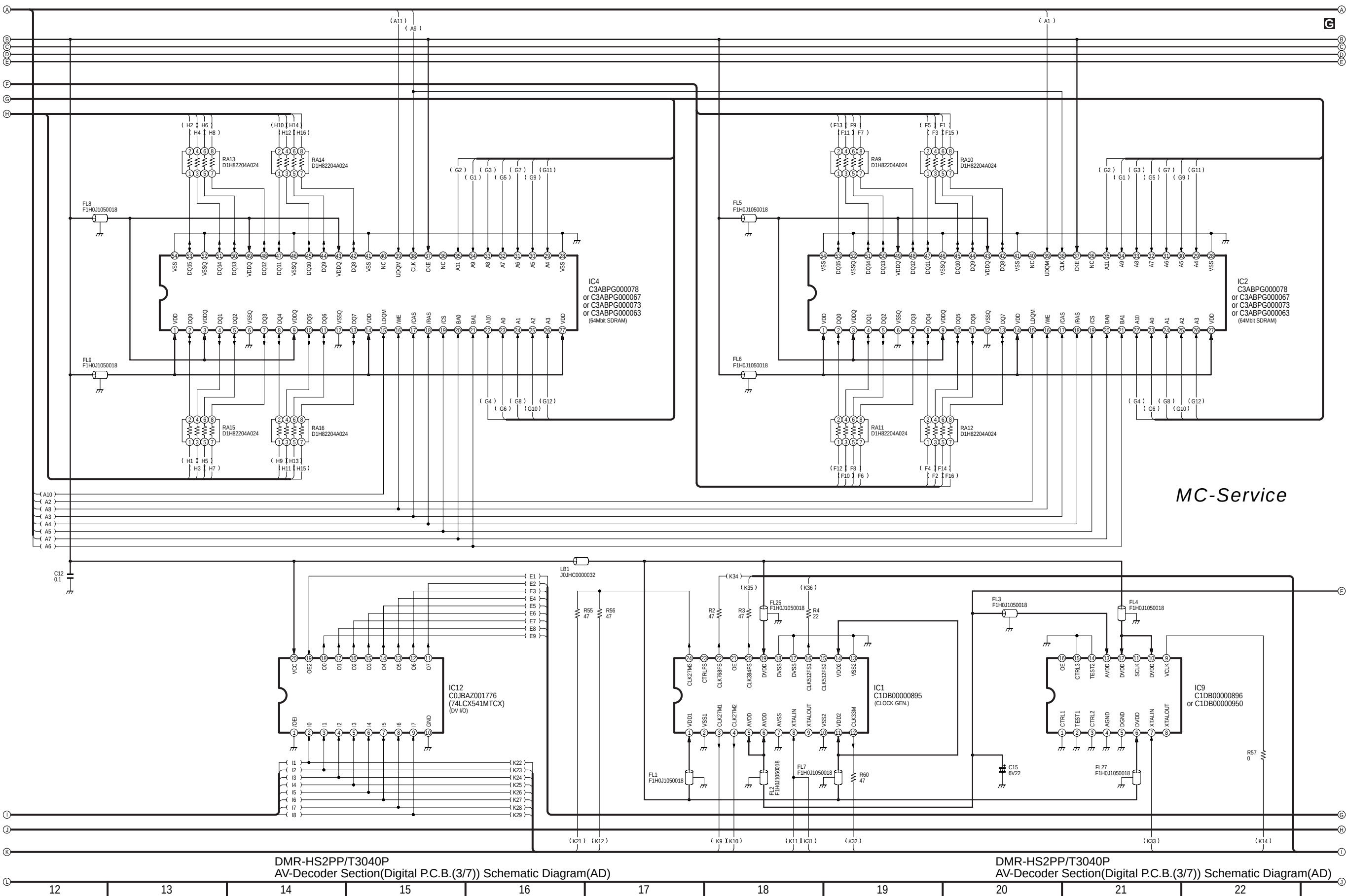


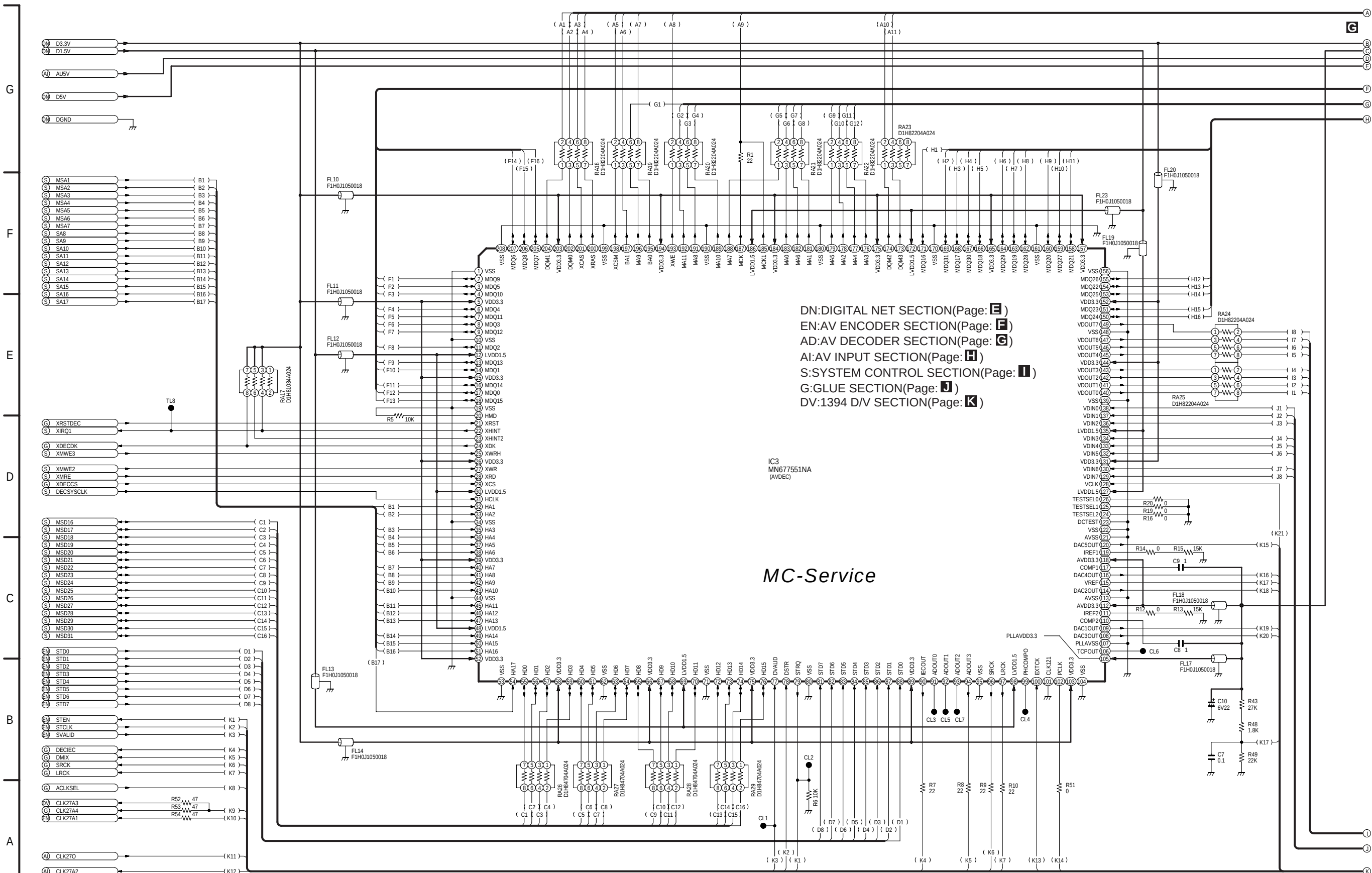


DMR-HS2PP/T3040P
AV-Decoder Section(Digital P.C.B.(3/7)) Schematic Diagram(AD)

REF NO. 50000 SERIES

DMR-HS2PP/T3040P
AV-Decoder Section(Digital P.C.B.(3/7)) Schematic Diagram(AD)



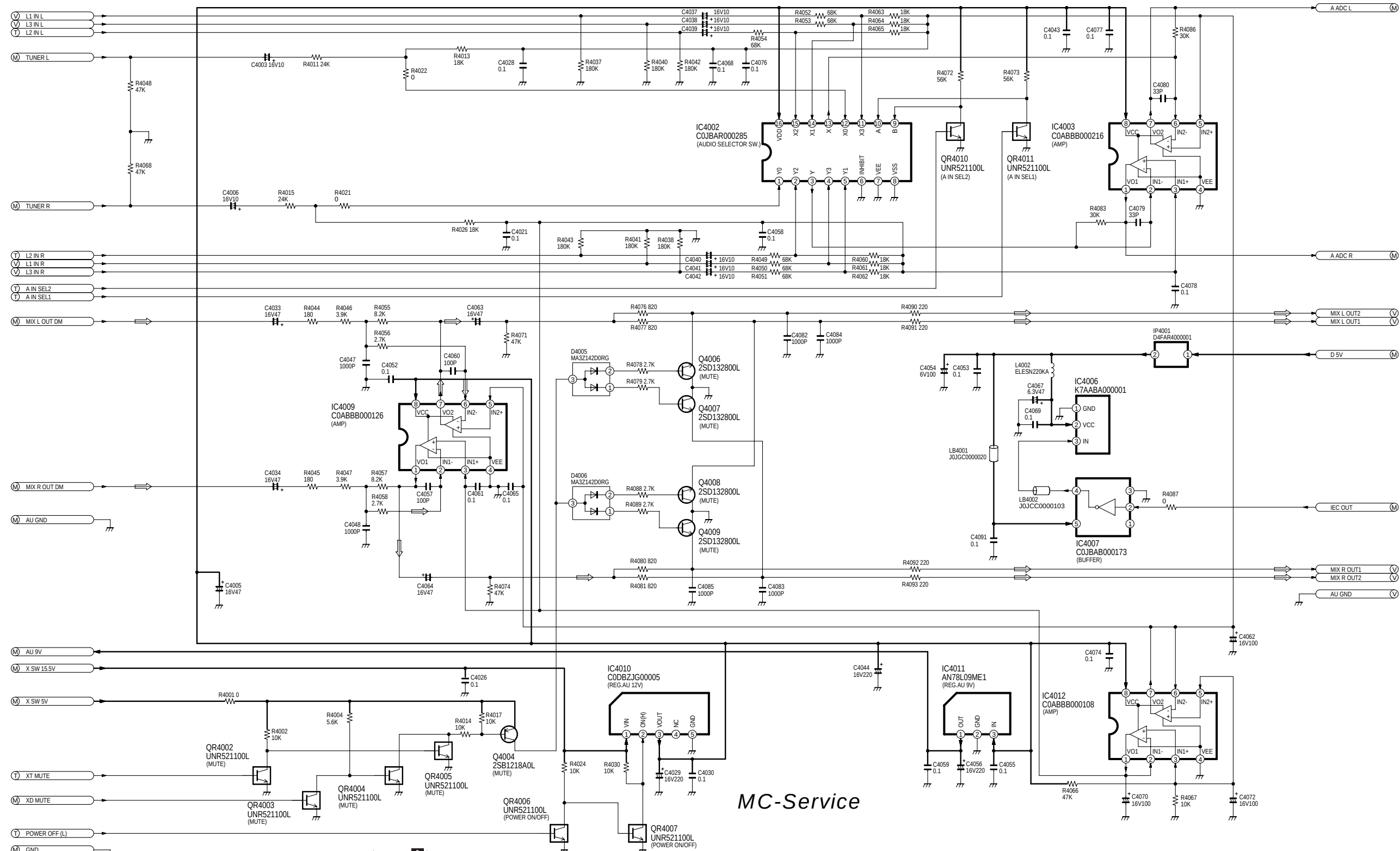


DN: DIGITAL NET SECTION (Page: **E**)
EN: AV ENCODER SECTION (Page: **F**)
AD: AV DECODER SECTION (Page: **G**)
AI: AV INPUT SECTION (Page: **H**)
S: SYSTEM CONTROL SECTION (Page: **I**)
G: GLUE SECTION (Page: **J**)
DV: 1394 D/V SECTION (Page: **K**)

IC3
MN677551NA
(AVDEC)

MC-Service

G
F
E
D
C
B
A



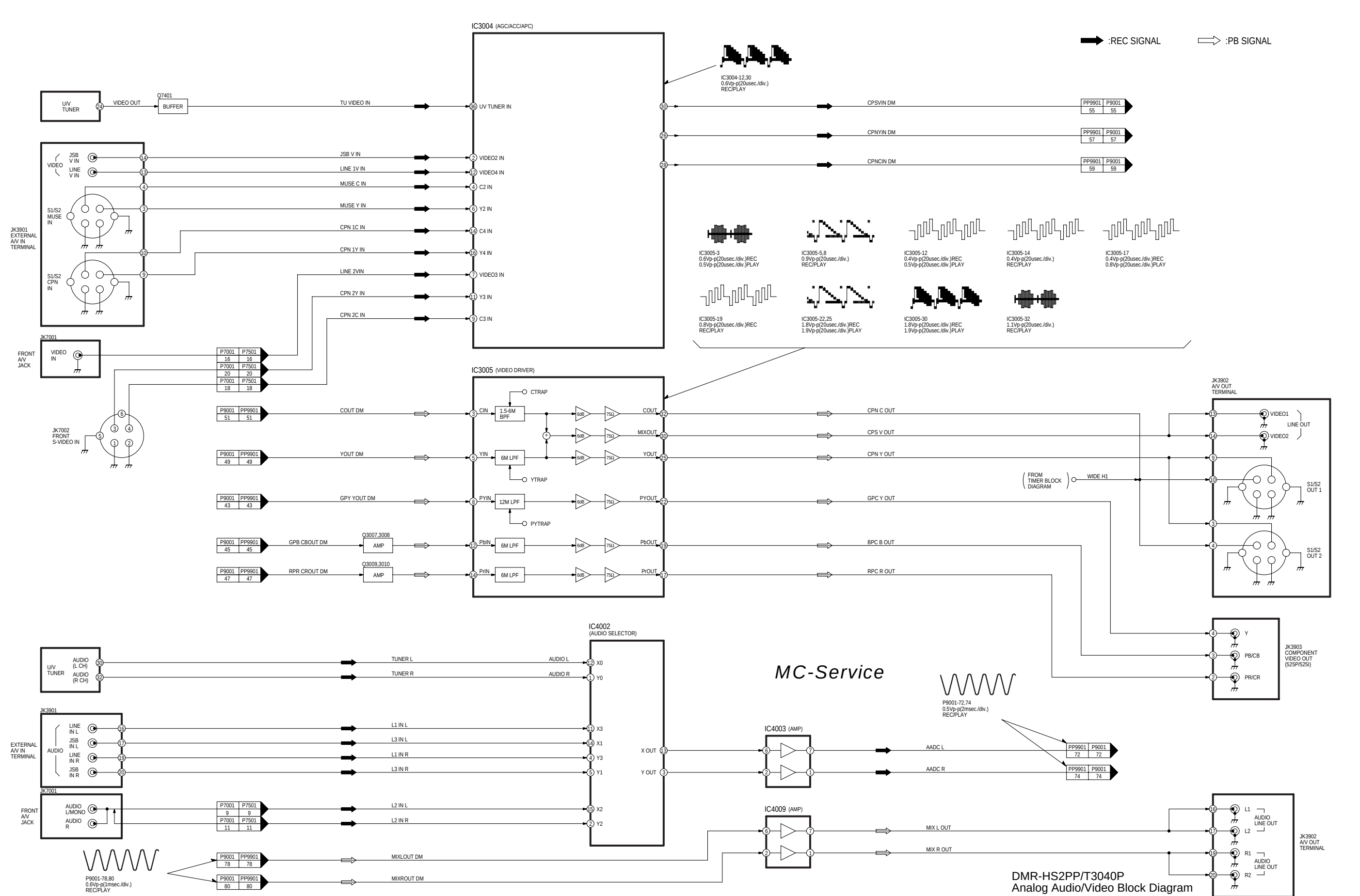
M:MAIN NET SECTION(Page: **A**)
V:VIDEO I/O SECTION(Page: **B**)
A:AUDIO MAIN SECTION(Page: **C**)
T:TIMER SECTION(Page: **D**)

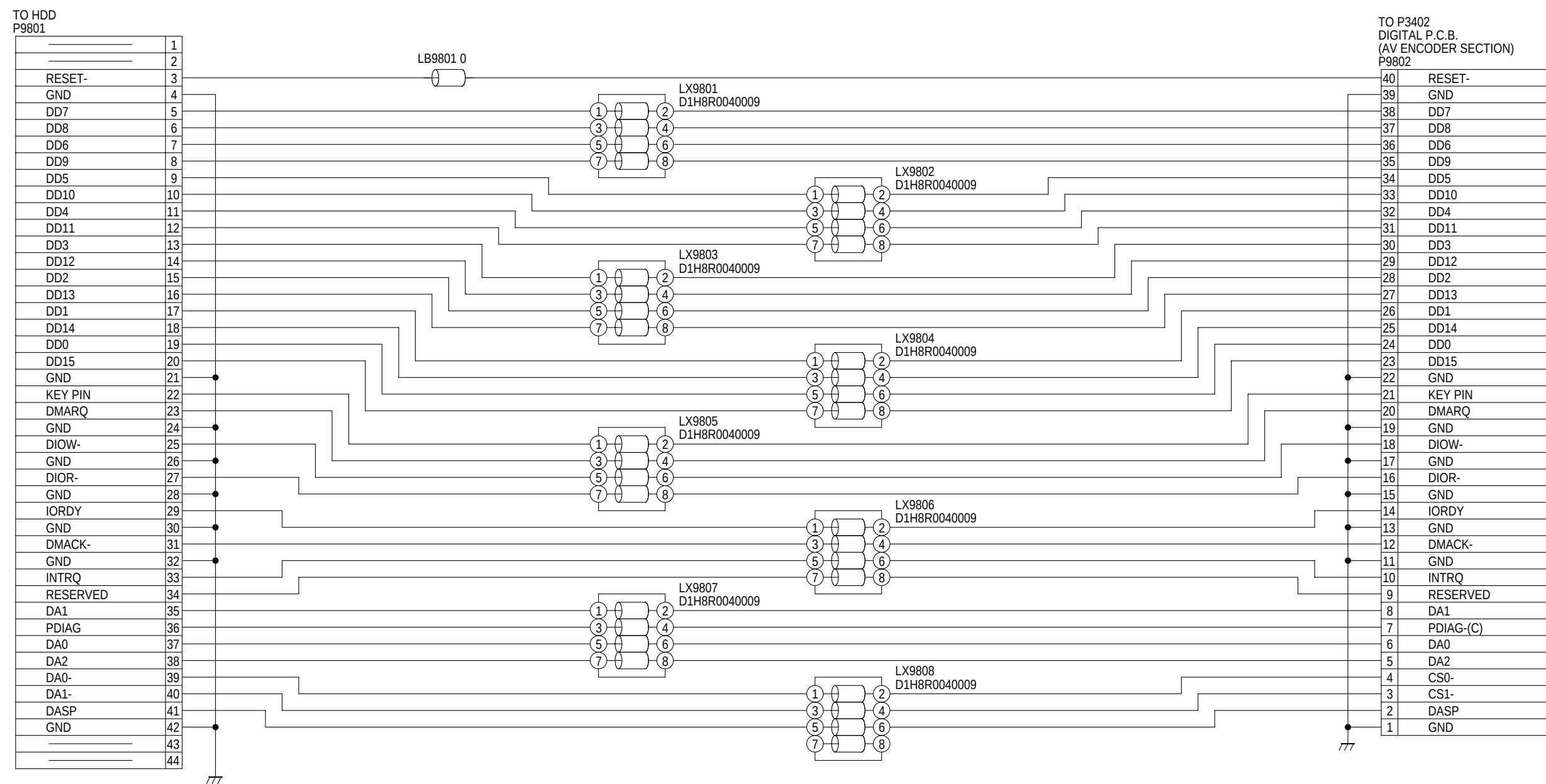
MC-Service

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-HS2PP/T3040P
Audio Main Section (Main P.C.B. (3/4))
Schematic Diagram (A)

1 2 3 4 5 6 7 8 9 10 11

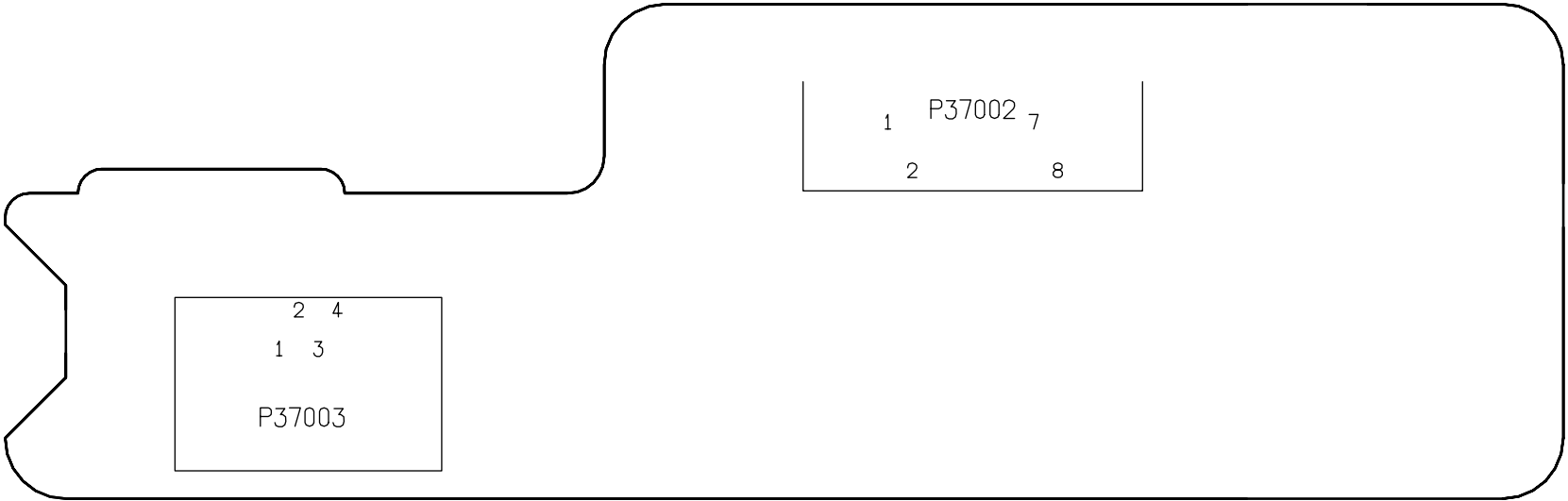




MC-Service

F

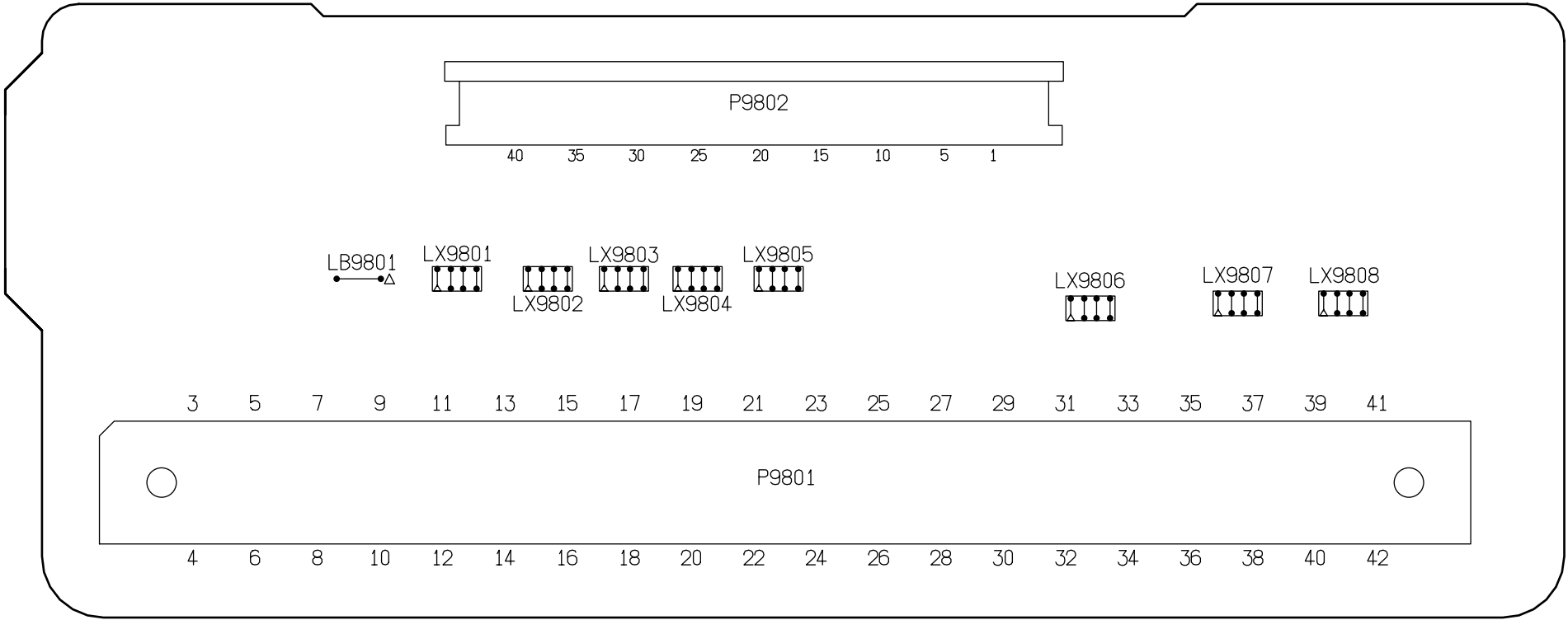
DV INPUT JACK P.C.B.



E

D

ATAPI P.C.B.



C

B

A

MC-Service

15. D+3.3V

Ref. No.	Pin. No.	Circuit Name
IC3401	1,3,9	AV ENC. (Digital)
	15,29,35	
	41,43,49	
	55,75,81	
IC3403	1,3,9	
	14,27,37	
	43,49	
IC3404	1,3,9	
	14,27,37	
	43,49	
IC50003	5,15,26	AV DEC. (Digital)
	39,52,58	
	66,75,89	
	103,131,144	
	152,157,165	
	175,184	
	194,203	
IC50004, IC50002	1,3,9,14	
	27,43,49	
IC50001	1,11,14,19	
IC50005	5	
IC50006	5	
IC50009	6,10,12	
IC50012	20	
IC50013	5	
IC50014	14	
IC6002,6003	7,18,31,42	Syscon (Digital)
IC6001,6008	1,3,9,14	
	27,43,49	
IC6007	23	
IC6005	22,27,47	
	61,82,102	
	115,162,174	
	216,221,226	
	239,248	
IC6701	1,20,40,81	GLUE (Digital)
	100,118,120	
IC6702	5	
IC6703	8,30	
IC6705	7,8,31,42	
IC6706	23,24	
IC6707	12,37	
IC37001	10,19,29,37	1394 D/V (Digital)
	43,50,56,69	
	76,87,97,108	
	118,132,141,	
	153,171,183,	
	190,197,207	
	216	
IC37002	25,26,61,62	
IC37006	19	
IC37007	16	
IC37009	5	
IC37010	5	

16. ANA+3.3V

Ref. No.	Pin. No.	Circuit Name
IC3202	10	AV Input (Digital)
IC3203	2,4,11	
	12,14,21	
	26,30	
IC50003	105,112,118	AV DEC. (Digital)
IC3402	30	AV ENC. (Digital)
IC37002	30,31,42	1394 D/V (Digital)
	51,52,56	

17. D+5V

Ref. No.	Pin. No.	Circuit Name
IC6706	1	GLUE (Digital)
IC50015	1,3	AV DEC. (Digital)

18. D+3V

Ref. No.	Pin. No.	Circuit Name
IC37003	12,31,43	1394 D/V (Digital)
IC37008	5	
IC37011	5	

19. D+1.5V

Ref. No.	Pin. No.	Circuit Name
IC50003	12,30,48	AV DEC. (Digital)
	69,98,127	
	135,172,186	

20. D+5V

Ref. No.	Pin. No.	Circuit Name
IC6802	10,15,47	PC CARD P.C.B.
IC6803	7,8,31,42	
IC6804	5	
IC6805	8	
IC6807	7	

1. XSW+15.5V

Ref. No.	Pin. No.	Circuit Name
IC7507	8	Timer (Main)

2. AU+12V LINE

Ref. No.	Pin. No.	Circuit Name
IC4001,4002	16	Audio (Main)
IC4003	8	
IC4009	8	
IC4012	8	

3. JC REG.+5V LINE

Ref. No.	Pin. No.	Circuit Name
IC3004	1	Video I/O (Main)

4. REG.+5V LINE

Ref. No.	Pin. No.	Circuit Name
IC3005	2,6	Video I/O (Main)

5. P SAVE+5V

Ref. No.	Pin. No.	Circuit Name
IC7501	19,60	Timer (Main)
IC7502	53,98	

6. X SW+5V

Ref. No.	Pin. No.	Circuit Name
IC7502	99,37	Timer (Main)
IC7503	1	

7. D+3.3V

Ref. No.	Pin. No.	Circuit Name
IC7505	2	Timer (Main)
IC6801	8	PC CARD P.C.B.

8. D+5V

Ref. No.	Pin. No.	Circuit Name
IC4006	2	Audio (Main)
IC4007	5	

9. AU+5V LINE

Ref. No.	Pin. No.	Circuit Name
IC4404	8	AV Input (Digital)
IC4405	4	
	5	
IC50010	6	AV DEC. (Digital)

10. DAC+3.3V LINE

Ref. No.	Pin. No.	Circuit Name
IC4405	14	AV Input (Digital)
IC50010	5	AV DEC. (Digital)

11. BUPD+3.3V(Not Used)

12. ANA+5V

Ref. No.	Pin. No.	Circuit Name
IC3202	5	AV Input (Digital)

13. D+1.8V

Ref. No.	Pin. No.	Circuit Name
IC3203	39,64,88	AV Input (Digital)
	109,131,156	
IC3402	7,19,32	AV ENC. (Digital)
	44,59,71	
	84,96,111	
	123,136,148	
	163,175	
	188,198	
IC3405	26,78	
	138,193	
IC37001	17,47,64,81	1394 D/V (Digital)
	92,126,133	
	146,179,212	

14. SD+1.8V

Ref. No.	Pin. No.	Circuit Name
IC6005	18,46,66	Syscon (Digital)
	94,106,163	
	184,220,238	

15. D+3.3V

Ref. No.	Pin. No.	Circuit Name
IC3201	1,7,13,25	AV Input (Digital)
	34,38,44	
IC4406,4007	5	
IC4408	8	
IC4409	15,30	
IC4410	5	
IC3203	31,38,45	
	52,58,65	
	71,78,84	
	91,108,119	
	130,137,145	
	159,166,179	
IC3402	4,14,22,34	AV ENC. (Digital)
	46,50,57	
	66,75,83	
	91,100,110	
	118,126,132	
	139,145,152	
	160,167,172	
	181,185,192	
	199,202,205	
IC3405	7,15,31	
	43,64,81	
	90,100,108	
	117,131,146	
	156,168,178	
	192,208	

Ref No.	IC1											IC101					IC102				
MODE	1	2	3	4	5	6	7	8			K	R	A			1	2	3	4	5	
REC	-35.6	-35.0	-37.3	-35.0	0	-30.0	-23.0	-33.0			3.6	2.5	0			0	18.8	16.0	2.5	18.8	
PLAY	-35.6	-35.0	-37.3	-35.0	0	-30.0	-23.0	-33.0			3.6	2.5	0			0	18.8	16.0	2.5	18.8	
STOP	-35.6	-35.0	-37.3	-35.0	0	-30.0	-23.0	-33.0			3.6	2.5	0			0	18.8	16.0	2.5	18.8	
Ref No.	IC301										IC302										
MODE	1	2	3	4	5	6	7	8			1	2	3	4	5	6	7	8			
REC	2.8	1.2	1.2	0	1.7	1.6	11.6	12.4			11.6	2.9	3.1	0	1.2	1.2	5.9	12.5			
PLAY	2.8	1.2	1.2	0	1.7	1.6	11.6	12.4			11.7	2.10	3.2	1	1.2	1.2	5.10	12.6			
STOP	2.8	1.2	1.2	0	1.7	1.6	11.6	12.4			11.8	2.11	3.3	2	1.2	1.2	5.11	12.7			
Ref No.	Q1						Q2					Q4					Q101				
MODE	1	2	3	4	5			E	C	B			G	S	D			E	C	B	
REC	-35.6	-37.3	-35.0	0	-37.3			0	-35.6	-37.0			-0.1	0	-			0.6	0.6	2.7	
PLAY	-35.6	-37.3	-35.0	0	-37.3			0	-35.6	-37.0			-0.1	0	-			0.6	0.6	2.7	
STOP	-35.6	-37.3	-35.0	0	-37.3			0	-35.6	-37.0			-0.1	0	-			0.6	0.6	2.7	
Ref No.	Q102				Q103				Q104				Q105								
MODE	E	C	B		E	C	B		E	C	B		1	2	3	4	5	6	7	8	
REC	5.2	0.4	5.2		0	5.2	0.4		0	0	0.7		5.2	5.2	5.2	8.8	5.2	5.2	5.2	5.2	
PLAY	5.2	0.4	5.2		0	5.2	0.4		0	0	0.7		5.2	5.2	5.2	8.8	5.2	5.2	5.2	5.2	
STOP	5.2	0.4	5.2		0	5.2	0.4		0	0	0.7		5.2	5.2	5.2	8.8	5.2	5.2	5.2	5.2	
Ref No.	Q106				Q107								Q301				Q302				
MODE	E	C	B		1	2	3	4	5	6	7	8	1	2	3	4	1	2	3	4	
REC	12.4	12.4	0		12.4	12.4	12.4	6.5	12.4	12.4	12.4	12.4	6.9	4.3	2.0	4.3	9.4	4.0	3.6	4.0	
PLAY	12.4	12.4	0		12.4	12.4	12.4	6.5	12.4	12.4	12.4	12.4	6.7	4.3	2.0	4.3	9.2	4.0	3.6	4.0	
STOP	12.4	12.4	0		12.4	12.4	12.4	6.4	12.2	12.2	12.2	12.2	7.1	4.0	2.0	4.0	9.7	3.8	3.6	3.8	
Ref No.	Q303				Q304				Q305				Q306				Q307				
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B		
REC	6.9	12.4	7.0		6.9	0	7.0		9.3	12.4	9.5		9.3	0	9.5		12.4	6.8	12.0		
PLAY	6.7	12.4	6.8		6.7	0	6.8		9.3	12.4	9.5		9.3	0	9.5		12.4	6.8	12.0		
STOP	7.2	12.2	7.4		7.2	0	7.4		9.7	12.2	9.7		9.7	0	9.7		12.2	7.4	11.8		
Ref No.	Q308				Q309				Q310				Q311				Q312				
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B		
REC	12.4	9.5	11.8		0	6.1	0.3		0	3.4	0.4		12.4	12.0	12.2		12.4	11.9	12.2		
PLAY	12.4	9.5	11.8		0	6.1	0.3		0	3.4	0.4		12.4	12.0	12.2		12.4	11.9	12.2		
STOP	12.2	9.7	11.6		0	5.4	0.3		0	2.5	0.5		12.2	11.8	12.0		12.2	11.6	12.0		

A — **B** — **C** — **D**



ADDRESS INFORMATION

Power Supply P.C.B.
DMR-HS2PP:ETXMM387A4F
DMR-T3040P:ETXMM421A4F

PC CARD P.C.B.

MC-Service

DMR-HS2PP/T3040P
PC Card P.C.B. (REP3369AA)

PC CARD P.C.B.

MC-Service

DMR-HS2PP/T3040P
PC Card P.C.B. (REP3369AA)

PC CARD P.C.B.

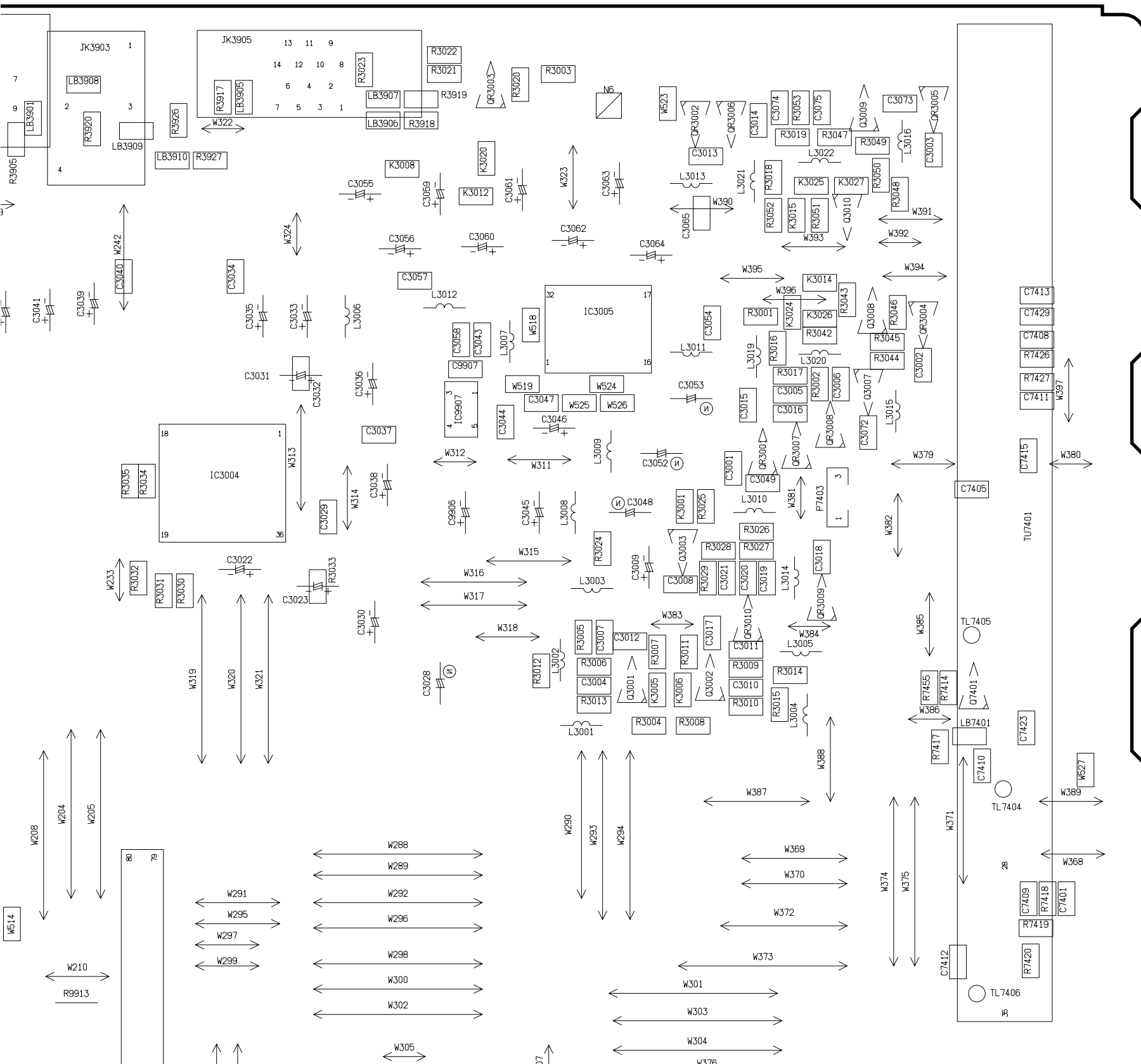
MC-Service

DMR-HS2PP/T3040P
PC Card P.C.B. (REP3369AA)

MAIN P.C.B.

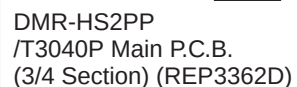
Transistor		Q9901	C-2	QR7504	B-4	IC9903	D-2	TL7533	C-3
Q3001	D-7	Transistor-resistors		QR7505	B-4	IC9904	C-5	TL7534	D-3
Q3002	D-7	QR3001	E-7	QR7506	C-2	IC9905	C-4	TL7538	A-2
Q3003	E-7	QR3002	F-7	QR9901	C-2	IC9906	E-2	TL7540	C-3
Q3007	E-7	QR3003	F-6	Integrated Circuits		IC9907	E-6	TL7541	C-3
Q3008	E-7	QR3004	E-7	IC3004	E-5	IC9908	B-4	TL9901	B-5
Q3009	F-7	QR3005	F-7	IC3005	E-6	IC9909	C-4	TL9902	B-5
Q3010	F-7	QR3006	F-7	IC4001	B-6	Test Points		TL9903	B-5
Q4004	E-3	QR3007	E-7	IC4002	C-6	TL7404	D-8	TL9904	B-5
Q4005	F-2	QR3008	E-7	IC4003	C-6	TL7405	E-8	TL9905	B-5
Q4006	E-4	QR3009	E-7	IC4005	F-1	TL7406	D-8	TP3001	F-4
Q4007	E-3	QR3010	E-7	IC4006	F-1	TL7501	A-4	TP3002	F-4
Q4008	E-4	QR4002	D-3	IC4007	F-1	TL7502	C-2	Connectors	
Q4009	E-3	QR4003	D-3	IC4009	E-3	TL7503	C-2	JK3901	F-2
Q7401	D-8	QR4004	D-3	IC4010	E-2	TL7504	C-2	JK3902	F-4
Q7501	B-2	QR4005	E-1	IC4011	E-2	TL7514	C-3	JK3903	F-5
Q7502	B-2	QR4006	E-2	IC4012	E-3	TL7515	B-2	JK3905	F-5
Q7503	B-4	QR4007	E-2	IC7501	A-3	TL7516	C-4	P7401	B-7
Q7504	B-4	QR4008	B-6	IC7502	B-3	TL7517	C-4	P7501	A-7
Q7505	D-3	QR4009	B-6	IC7503	B-2	TL7518	C-4	P7503	E-1
Q7506	D-3	QR4010	B-6	IC7505	C-2	TL7528	C-2	P9901	C-5
Q7507	D-2	QR4011	B-6	IC7506	C-2	TL7529	C-3	PP7501	A-3
Q7509	D-1	QR7501	B-1	IC7507	D-1	TL7530	C-3	PP9901	C-5
Q7510	A-4	QR7502	B-4	IC9901	B-5	TL7531	C-3	PP9902	B-1
Q7511	A-4	QR7503	B-4	IC9902	C-1	TL7532	C-3	PP9903	B-5

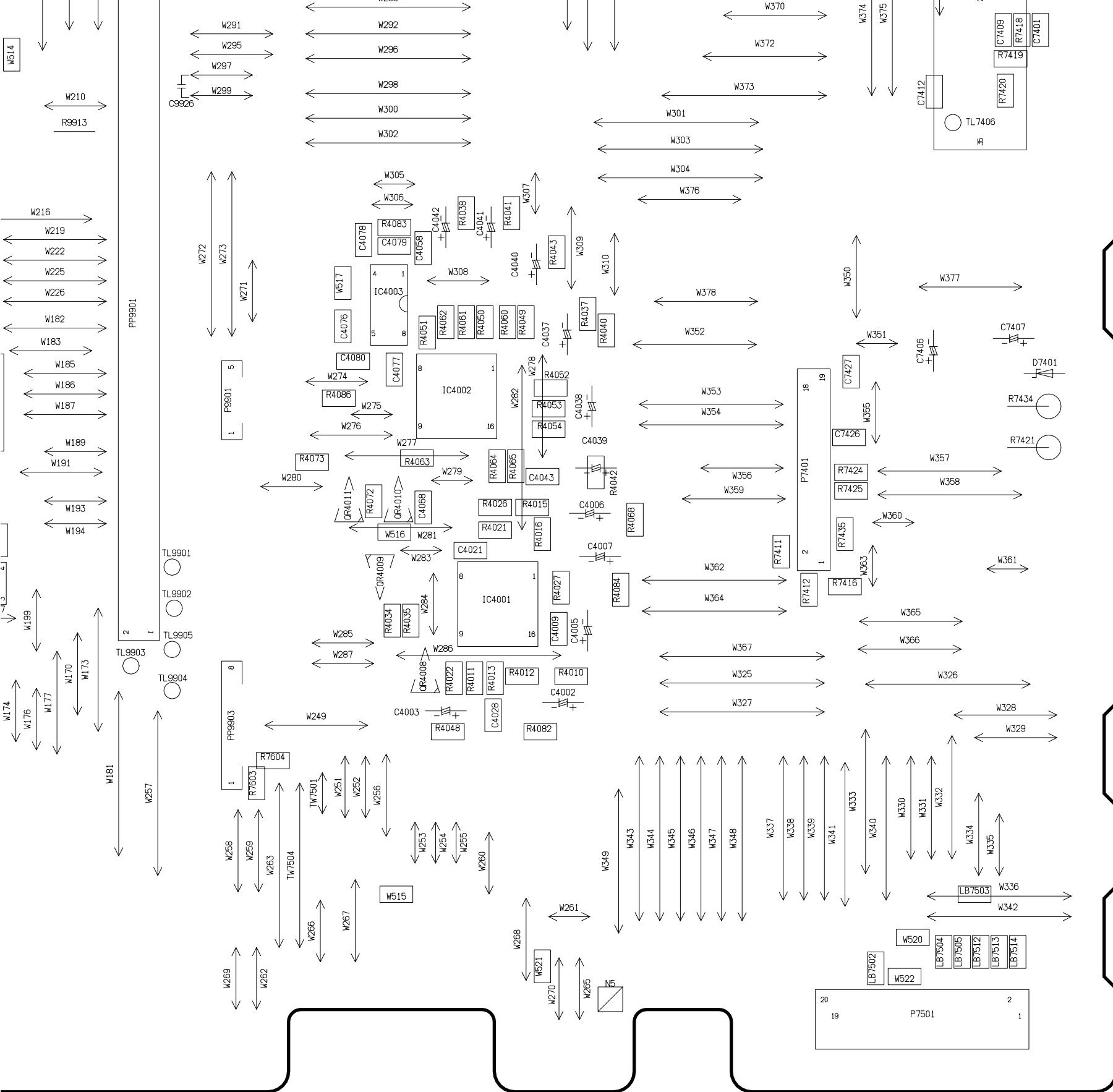
ADDRESS INFORMATION



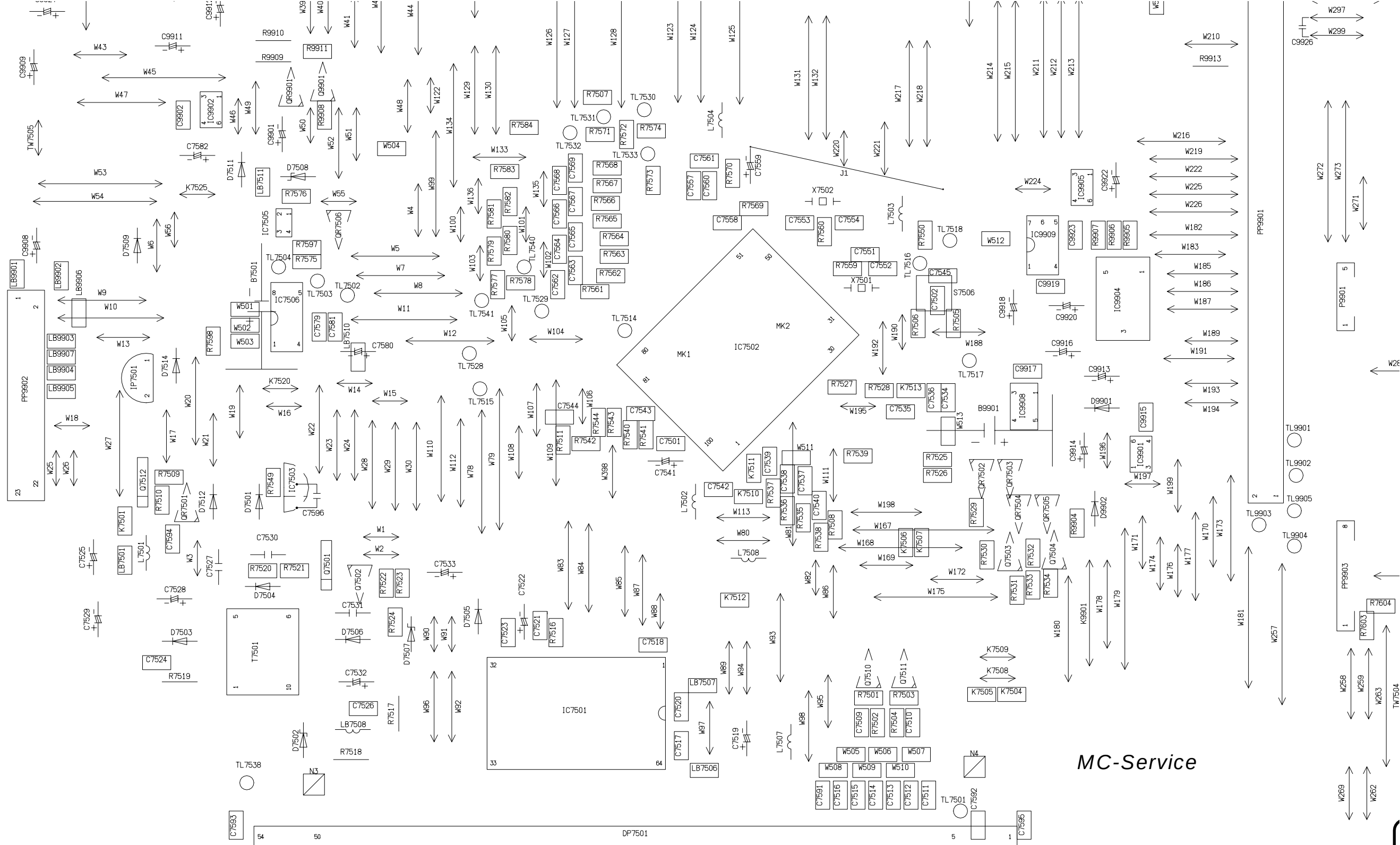
MC-Service

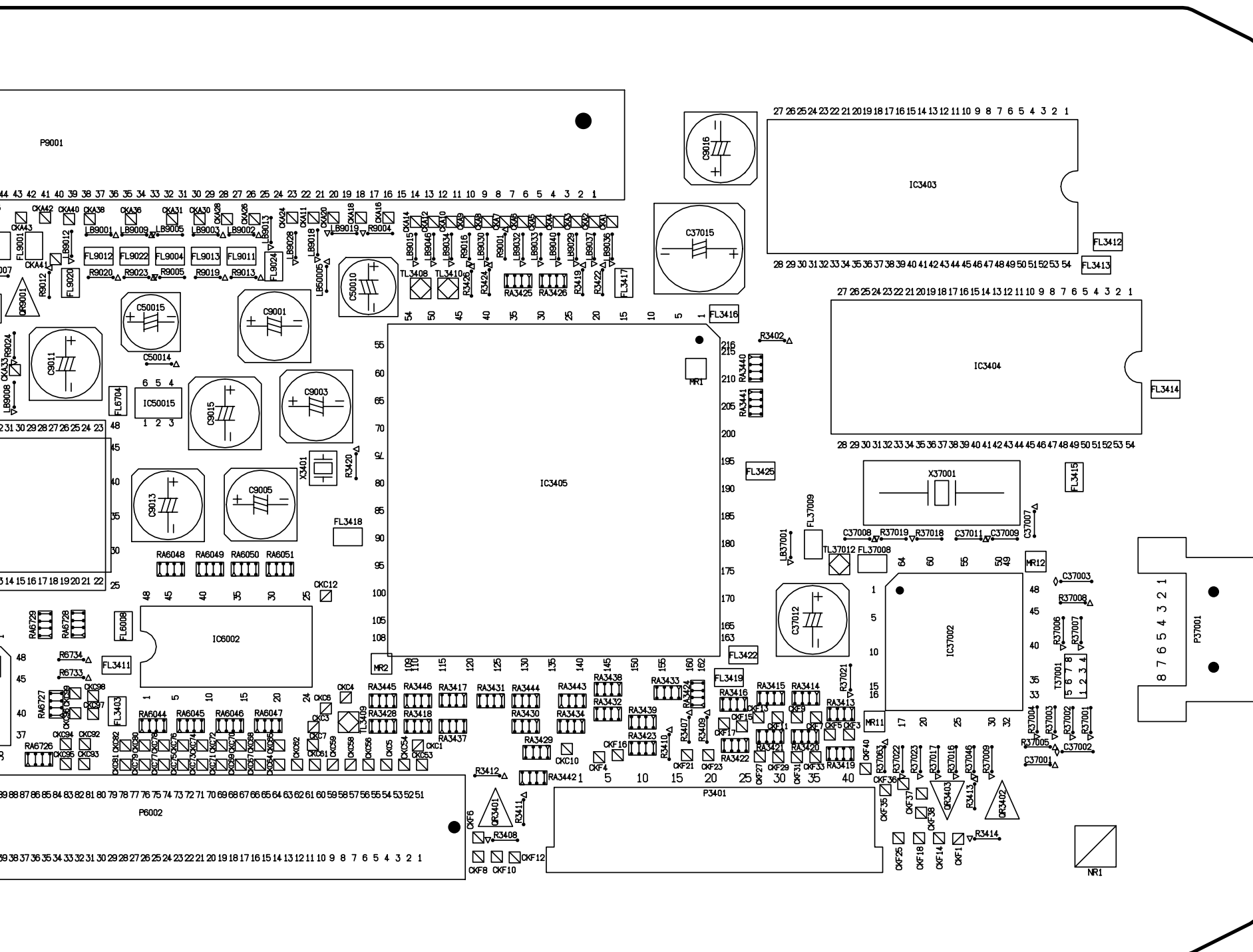
D





MC-Service





MC-Service

*IC6707 is not supplied in the form of an individual part.
When replacing, be sure to replace the digital p.c.b.
and not IC6707 singly.

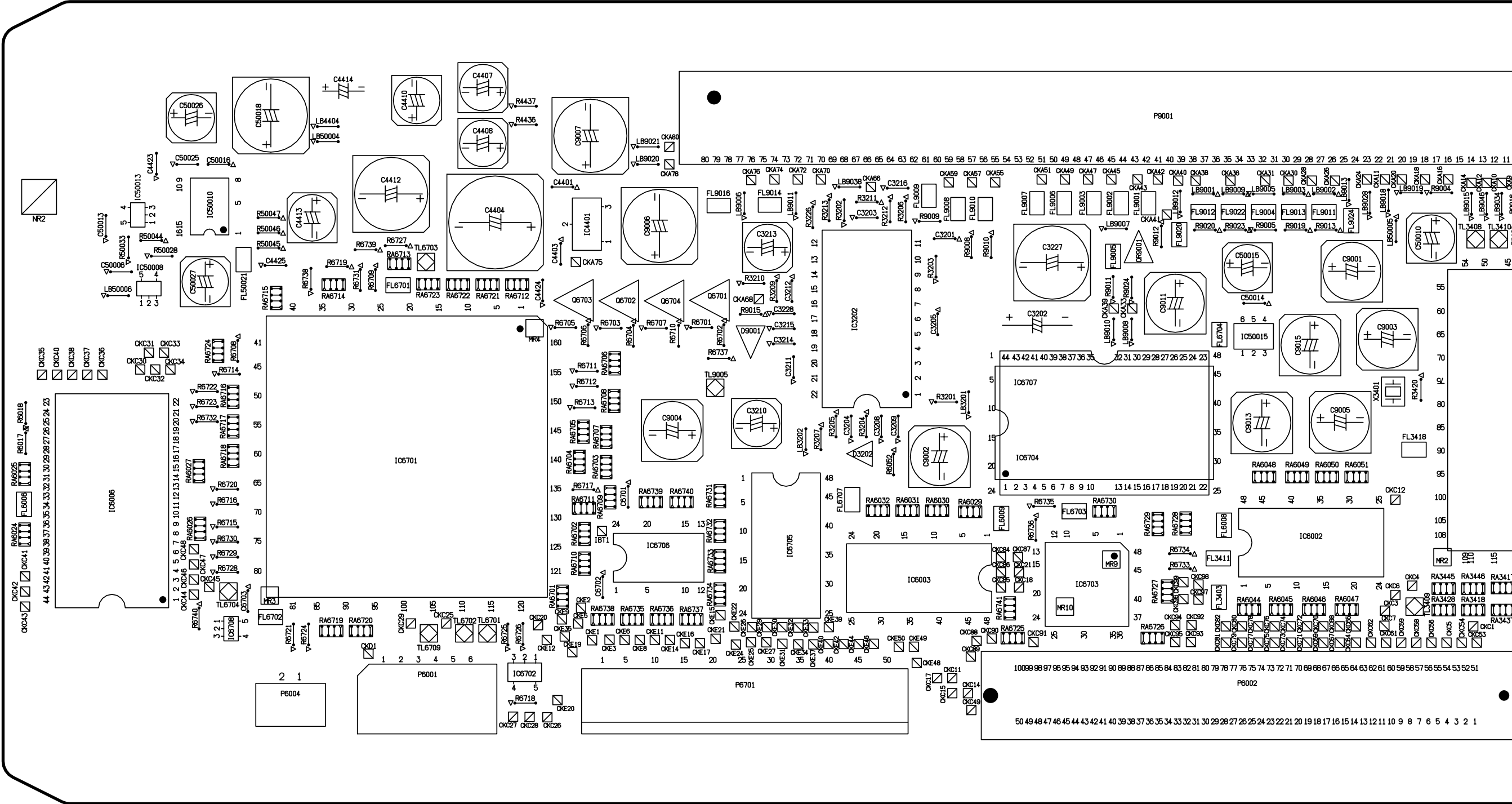
D

DIGITAL P.C.B.

C

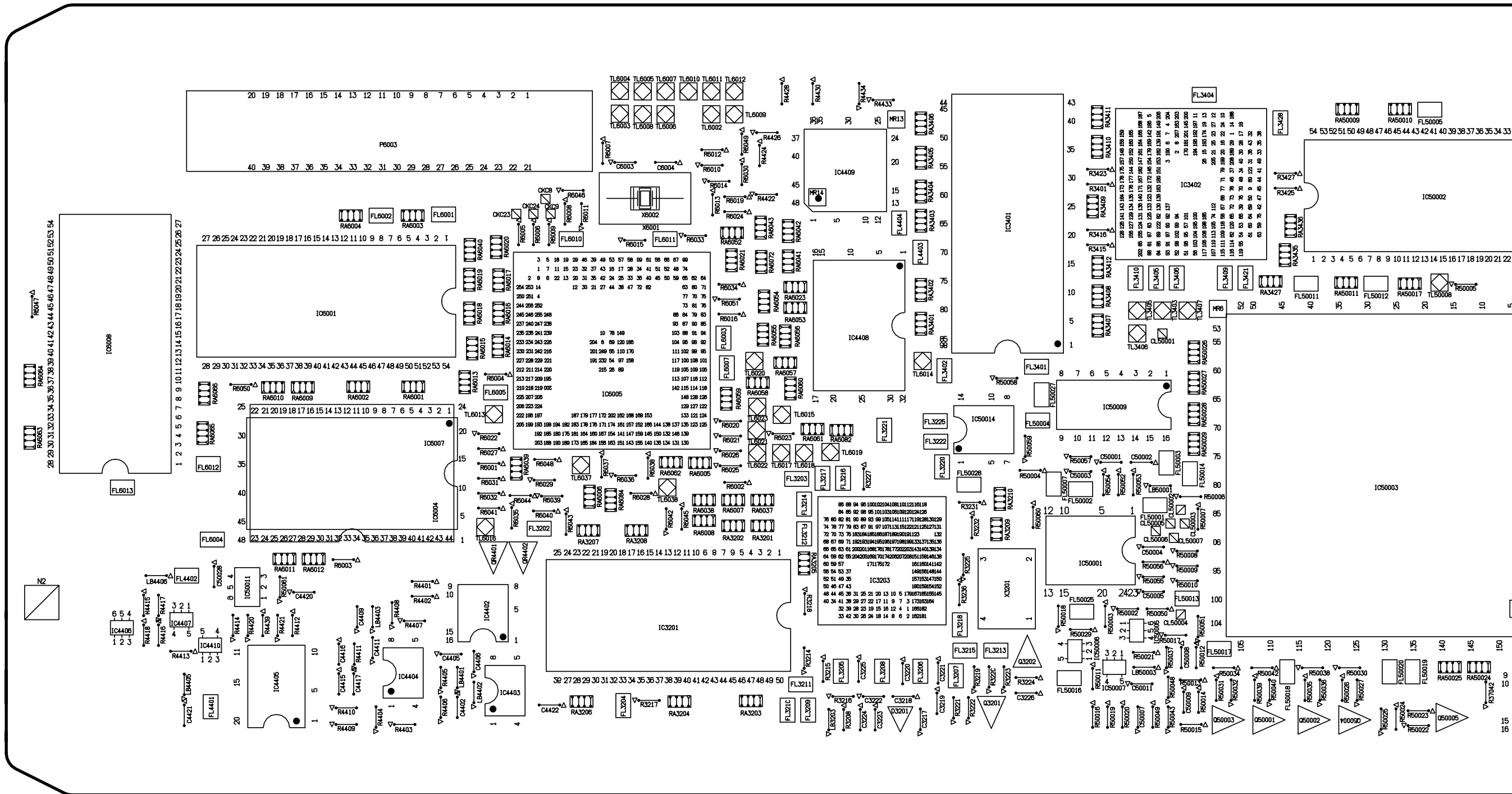
B

A



(FOIL SIDE)





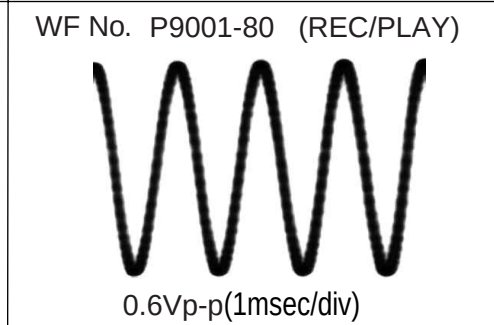
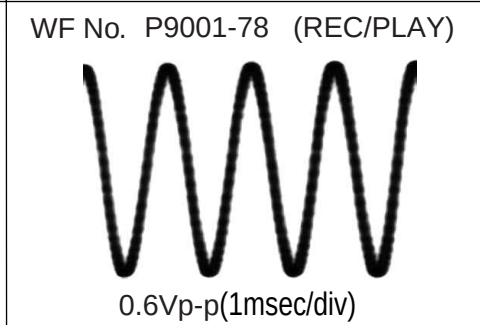
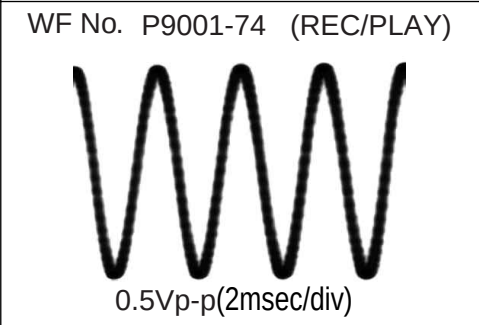
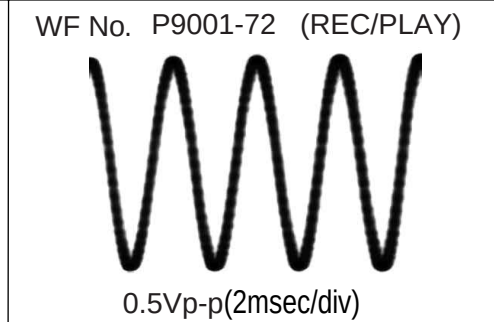
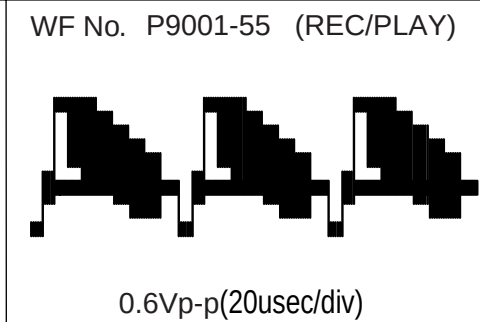
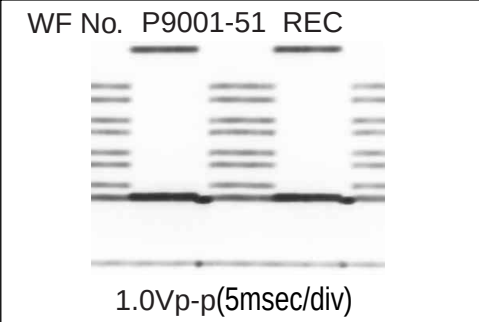
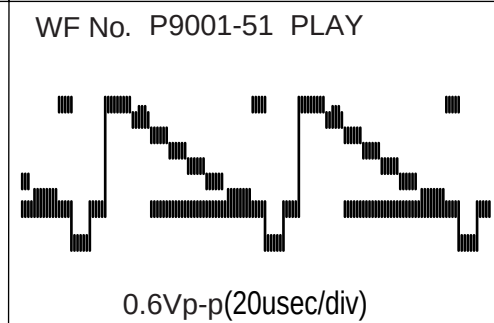
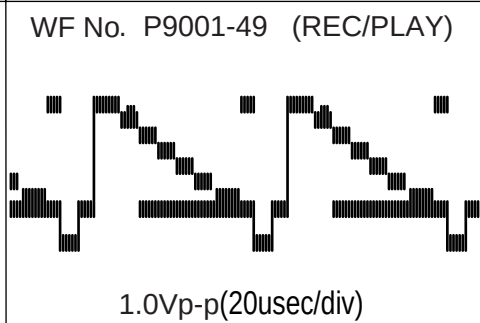
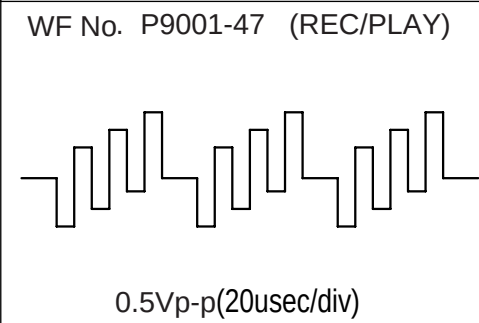
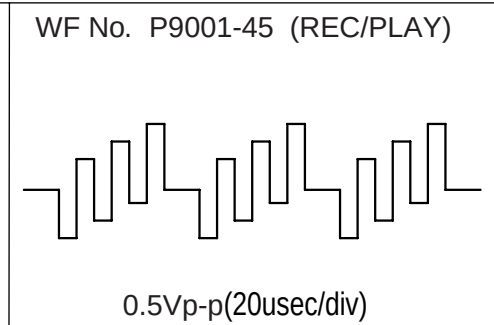
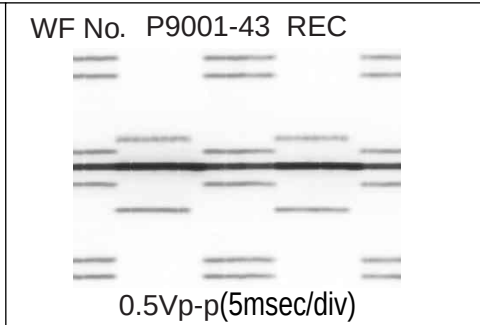
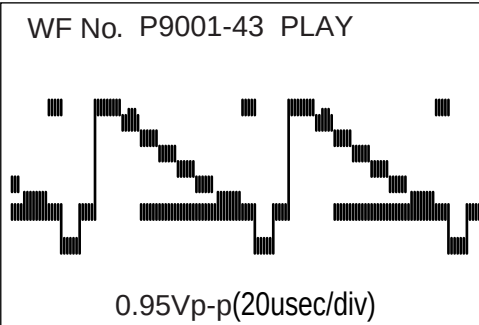
DIGITAL P.C.B.

Transistor			IC50010	C-1	F	CKA6	C-6	F	CKC61	A-6	F	CKE3	A-3	F	TL3404	C-5	C
Q3201	A-4	C	IC50011	A-2	C	CKA66	C-4	F	CKC62	A-6	F	CKE30	A-4	F	TL3405	C-5	C
Q3202	A-4	C	IC50012	B-7	C	CKA68	C-3	F	CKC64	A-6	F	CKE31	A-4	F	TL3406	B-5	C
Q50001	A-5	C	IC50013	C-1	F	CKA7	C-6	F	CKC66	A-6	F	CKE32	A-4	F	TL3407	C-5	C
Q50002	A-5	C	IC50014	B-4	C	CKA70	C-4	F	CKC67	A-6	F	CKE33	A-4	F	TL3409	A-6	F
Q50003	A-5	C	IC50015	B-5	F	CKA72	C-4	F	CKC68	A-6	F	CKE34	A-4	F	TL37001	B-8	C
Q50004	A-6	C	IC6001	C-2	C	CKA74	C-4	F	CKC69	A-6	F	CKE35	A-3	F	TL37002	B-8	C
Q50005	A-6	C	IC6002	B-5	F	CKA75	C-3	F	CKC7	A-6	F	CKE37	A-4	F	TL37003	B-8	C
Q6701	C-3	F	IC6003	B-4	F	CKA76	C-3	F	CKC70	A-6	F	CKE39	A-4	F	TL37004	B-8	C
Q6702	C-3	F	IC6004	B-2	C	CKA78	C-3	F	CKC71	A-5	F	CKE40	A-4	F	TL37005	C-8	C
Q6703	C-3	F	IC6004	B-4	C	CKA8	C-6	F	CKC72	A-5	F	CKE42	A-4	F	TL37006	C-8	C
Q6704	C-3	F	IC6005	B-3	C	CKA80	C-3	F	CKC73	A-5	F	CKE44	A-4	F	TL37007	C-8	C
Transistor-resistors			IC6006	B-1	F	CKA9	C-6	F	CKC74	A-5	F	CKE46	A-4	F	TL37008	C-8	C
QR3401	A-6	F	IC6007	B-2	C	CKC1	A-6	F	CKC75	A-5	F	CKE48	A-4	F	TL37010	C-8	C
QR4401	B-2	C	IC6008	B-1	C	CKC10	A-7	F	CKC76	A-5	F	CKE49	A-4	F	TL37012	B-7	F
QR4402	B-3	C	IC6701	B-2	F	CKC11	A-4	F	CKC77	A-5	F	CKE5	A-3	F	TL50008	C-6	C
QR9001	C-5	F	IC6702	A-3	F	CKC12	B-6	F	CKC78	A-5	F	CKE50	A-4	F	TL6002	C-3	C
Integrated Circuits			IC6703	A-5	F	CKC14	A-4	F	CKC79	A-5	F	CKE6	A-3	F	TL6003	C-3	C
IC3201	A-3	C	IC6703	A-5	F	CKC15	A-4	F	CKC8	C-3	C	CKE8	A-3	F	TL6004	C-3	C
IC3202	B-4	F	IC6705	B-4	F	CKC17	A-4	F	CKC80	A-5	F	CKE9	A-3	F	TL6005	C-3	C
IC3202	B-5	F	IC6706	B-3	F	CKC18	B-4	F	CKC81	A-5	F	CKF1	A-8	F	TL6006	C-3	C
IC3203	B-4	C	IC6707	B-5	F	CKC20	A-3	F	CKC82	A-5	F	CKF10	A-6	F	TL6007	C-3	C
IC3401	C-4	C	IC9001	A-7	C	CKC21	B-4	F	CKC84	B-4	F	CKF11	A-7	F	TL6008	C-3	C
IC3402	C-5	C	Test Points			CKC23	C-3	C	CKC85	B-4	F	CKF12	A-6	F	TL6009	C-3	C
IC3403	C-8	F	CKA1	C-7	F	CKC24	C-3	C	CKC86	B-4	F	CKF13	A-7	F	TL6010	C-3	C
IC3404	C-8	F	CKA10	C-6	F	CKC25	A-2	F	CKC87	B-4	F	CKF14	A-8	F	TL6011	C-3	C
IC3405	B-6	F	CKA11	C-6	F	CKC26	A-3	F	CKC88	A-4	F	CKF15	A-7	F	TL6012	C-3	C
IC37001	B-8	C	CKA12	C-6	F	CKC27	A-3	F	CKC89	A-4	F	CKF16	A-7	F	TL6013	B-2	C
IC37002	B-8	F	CKA14	C-6	F	CKC28	A-3	F	CKC9	C-3	C	CKF17	A-7	F	TL6014	B-4	C
IC37003	A-8	C	CKA16	C-6	F	CKC3	A-6	F	CKC90	A-4	F	CKF18	A-8	F	TL6016	B-2	C
IC37004	A-7	C	CKA18	C-6	F	CKC30	B-1	F	CKC91	A-4	F	CKF21	A-7	F	TL6016	B-4	C
IC37005	A-7	C	CKA2	C-7	F	CKC31	B-1	F	CKC92	A-5	F	CKF23	A-7	F	TL6017	B-4	C
IC37006	A-7	C	CKA20	C-6	F	CKC32	B-1	F	CKC93	A-5	F	CKF25	A-8	F	TL6018	B-4	C
IC37007	A-6	C	CKA24	C-6	F	CKC33	B-1	F	CKC94	A-5	F	CKF27	A-7	F	TL6019	B-4	C
IC37008	B-8	C	CKA26	C-6	F	CKC34	B-1	F	CKC95	A-5	F	CKF29	A-7	F	TL6020	B-3	C
IC37009	A-7	C	CKA28	C-5	F	CKC35	B-1	F	CKC96	A-5	F	CKF3	A-7	F	TL6021	B-3	C
IC37010	A-7	C	CKA3	C-7	F	CKC36	B-1	F	CKC97	A-5	F	CKF31	A-7	F	TL6022	B-3	C
IC37011	A-8	C	CKA30	C-5	F	CKC37	B-1	F	CKC98	B-5	F	CKF33	A-7	F	TL6023	B-3	C
IC4401	C-3	F	CKA31	C-5	F	CKC38	B-1	F	CKC99	B-5	F	CKF35	A-8	F	TL6037	B-2	C
IC4402	A-2	C	CKA31	C-5	F	CKC4	B-6	F	CKD1	A-2	F	CKF36	A-8	F	TL6038	B-2	C
IC4403	A-2	C	CKA36	C-5	F	CKC40	B-1	F	CKE1	A-3	F	CKF37	A-8	F	TL6701	A-2	F
IC4404	A-2	C	CKA38	C-5	F	CKC41	B-1	F	CKE11	A-3	F	CKF38	A-8	F	TL6702	A-2	F
IC4405	A-2	C	CKA39	C-5	F	CKC42	A-1	F	CKE12	A-3	F	CKF4	A-7	F	TL6703	C-2	F
IC4406	A-1	F	CKA4	C-7	F	CKC43	A-1	F	CKE14	A-3	F	CKF40	A-7	F	TL6704	A-1	F
IC4407	A-1	C	CKA40	C-5	F	CKC44	A-1	F	CKE15	A-3	F	CKF5	A-7	F	TL6709	A-2	F
IC4408	B-4	C	CKA41	C-5	F	CKC45	B-1	F	CKE16	A-3	F	CKF6	A-6	F	TL9005	B-3	F
IC4409	C-4	C	CKA42	C-5	F	CKC46	B-1	F	CKE17	A-3	F	CKF7	A-7	F	Connectors		
IC4410	A-1	C	CKA43	C-5	F	CKC47	B-1	F	CKE19	A-3	F	CKF8	A-6	F	P3401	A-7	F
IC50001	B-5	C	CKA44	C-5	F	CKC48	B-1	F	CKE2	A-3	F	CKF9	A-7	F	P3402	C-7	C
IC50002	C-6	C	CKA47	C-5	F	CKC49	A-4	F	CKE20	A-3	F	CL50001	B-5	C	P6001	A-2	F
IC50003	B-6	C	CKA49	C-5	F	CKC5	A-6	F	CKE21	A-3	F	CL50002	B-5	C	P6002	A-5	F
IC50004	C-7	C	CKA5	C-6	F	CKC53	A-6	F	CKE22	A-3	F	CL50003	B-5	C	P6003	C-2	C
IC50005	A-5	C	CKA51	C-4	F	CKC54	A-6	F	CKE24	A-3	F	CL50004	A-5	C	P6004	A-2	F
IC50006	A-5	C	CKA55	C-4	F	CKC56	A-6	F	CKE25	A-3	F	CL50005	B-5	C	P6701	A-3	F
IC50007	A-5	C	CKA55	C-5	F	CKC58	A-6	F	CKE26	A-3	F	CL50006	B-5	C	P9001	A-5	F
IC50008	C-1	F	CKA57	C-4	F	CKC59	A-6	F	CKE27	A-3	F	CL50007	B-5	C	PS37001	B-9	F
IC50009	B-5	C	CKA59	C-4	F	CKC6	A-6	F	CKE29	A-3	F	IBT1	B-3	F			

ADDRESS INFORMATION

C.....COMPONENT SIDE

F.....FOIL SIDE



TC	18-2		19-2		20-2		21-2		27	
SIGNAL NAME	IC6002/BUFFER		IC6007/LOADER		IC6005/MAIN CPU		IC6703/ECC		IC6706/DATA BUFFER	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
SD0	-	-	-	-	119	SD0	39	SD0	-	-
SD1	-	-	-	-	118	SD1	38	SD1	-	-
SD2	-	-	-	-	117	SD2	37	SD2	-	-
SD3	-	-	-	-	116	SD3	36	SD3	-	-
SD4	-	-	-	-	114	SD4	34	SD4	-	-
SD5	-	-	-	-	113	SD5	33	SD5	-	-
SD6	-	-	-	-	112	SD6	32	SD6	-	-
SD7	-	-	-	-	111	SD7	31	SD7	-	-
SD8	-	-	-	-	109	SD8	29	SD8	-	-
SD9	-	-	-	-	108	SD9	28	SD9	-	-
SD10	-	-	-	-	107	SD10	27	SD10	-	-
SD11	-	-	-	-	105	SD11	26	SD11	-	-
SD12	-	-	-	-	104	SD12	24	SD12	-	-
SD13	-	-	-	-	103	SD13	23	SD13	-	-
SD14	-	-	-	-	101	SD14	22	SD14	-	-
SD15	-	-	-	-	100	SD15	21	SD15	-	-
SD16	2	1B1	15	D0	99	SD16	-	-	21	B1
SD17	3	1B2	17	D1	98	SD17	-	-	20	B2
SD18	5	1B3	19	D2	96	SD18	-	-	19	B3
SD19	6	1B4	21	D3	95	SD19	-	-	18	B4
SD20	8	1B5	24	D4	93	SD20	-	-	17	B5
SD21	9	1B6	26	D5	92	SD21	-	-	16	B6
SD22	11	1B7	28	D6	91	SD22	-	-	15	B7
SD23	12	1B8	30	D7	90	SD23	-	-	14	B8
SD24	13	2B1	16	D8	88	SD24	-	-	-	-
SD25	14	2B2	18	D9	87	SD25	-	-	-	-
SD26	16	2B3	20	D10	86	SD26	-	-	-	-
SD27	17	2B4	22	D11	85	SD27	-	-	-	-
SD28	19	2B5	25	D12	84	SD28	-	-	-	-
SD29	20	2B6	27	D13	83	SD29	-	-	-	-
SD30	22	2B7	29	D14	81	SD30	-	-	-	-
SD31	23	2B8	31	D15	80	SD31	-	-	-	-

TC	12-3		17		18-1		19-1		20-1		21-1		25	
SIGNAL NAME	IC3405/RTSC		IC6701/GLUE		IC6003/BUFFER		IC6007/LOADER		IC6005/MAIN CPU		IC6703/ECC		IC6705/BUFFER	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
SA0	-	-	-	-	-	-	-	-	38	SA0	-	-	-	-
SA1	-	-	-	-	26	4A4	11	A0	37	SA1	-	-	26	4A4
SA2	-	-	-	-	27	4A3	10	A1	36	SA2	11	A2	27	4A3
SA3	-	-	-	-	29	4A2	9	A2	35	SA3	12	A3	29	4A2
SA4	-	-	-	-	30	4A1	8	A3	34	SA4	13	A4	30	4A1
SA5	-	-	-	-	32	3A4	7	A4	33	SA5	-	-	32	3A4
SA6	-	-	-	-	33	3A3	6	A5	32	SA6	-	-	33	3A3
SA7	-	-	-	-	35	3A2	5	A6	31	SA7	-	-	35	3A2
SA8	-	-	-	-	-	-	4	A7	30	SA8	-	-	36	3A1
SA9	65	HMADR9	-	-	-	-	42	A8	29	SA9	-	-	37	2A4
SA10	66	HMADR10	-	-	-	-	41	A9	28	SA10	-	-	38	2A3
SA11	67	HMADR11	-	-	-	-	40	A10	25	SA11	-	-	-	-
SA12	68	HMADR12	-	-	-	-	39	A11	24	SA12	-	-	40	2A2
SA13	69	HMADR13	-	-	-	-	38	A12	23	SA13	-	-	-	-
SA14	70	HMADR14	-	-	-	-	37	A13	21	SA14	-	-	-	-
SA15	71	HMADR15	-	-	-	-	36	A14	20	SA15	-	-	-	-
SA16	72	HMADR16	-	-	-	-	35	A15	19	SA16	-	-	-	-
SA17	73	HMADR17	-	-	-	-	34	A16	17	SA17	-	-	-	-
SA18	-	-	-	-	-	-	3	A17	16	SA18	-	-	-	-
SA19	-	-	105	SA19	-	-	-	-	15	SA19	-	-	-	-
SA20	-	-	-	-	-	-	-	-	14	SA20	-	-	-	-
SA21	-	-	-	-	-	-	-	-	13	SA21	-	-	-	-
SA22	-	-	-	-	-	-	-	-	12	SA22	-	-	-	-
SA23	-	-	106	SA23	-	-	-	-	11	SA23	-	-	-	-
SA24	-	-	107	SA24	-	-	-	-	9	SA24	14	A24	-	-
SA25	-	-	108	SA25	-	-	-	-	8	SA25	-	-	-	-

MC-Service

TC	23-1		23-2		23-3	
SIGNAL NAME	IC50012/DV I/O		IC3203/VAD CON		IC37001/DV DEC	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
R656DD0	18	O0	155	R656IN0	145	REC656OUT0
R656DD1	17	O1	154	R656IN1	144	REC656OUT1
R656DD2	16	O2	153	R656IN2	143	REC656OUT2
R656DD3	15	O3	152	R656IN3	142	REC656OUT3
R656DD4	14	O4	151	R656IN4	140	REC656OUT4
R656DD5	13	O5	150	R656IN5	139	REC656OUT5
R656DD6	12	O6	149	R656IN6	138	REC656OUT6
R656DD7	11	O7	148	R656IN7	137	REC656OUT7

TC	IC6705/16bit BUFFER		SIGNAL NAME	IC6802/PC CARD	
	Port Name	Pin No		Pin No	Port Name
26	4Y4	23	AP0	5	SA0
	4Y3	22	AP1	4	SA1
	4Y2	20	AP2	3	SA2
	4Y1	19	AP3	2	SA3
	3Y4	17	AP4	1	SA4
	3Y3	16	AP5	64	SA5
	3Y2	14	AP6	63	SA6
	3Y1	13	AP7	62	SA7
	2Y4	12	AP8	61	SA8
	2Y3	11	AP9	60	SA9
	2Y2	9	AP11	59	SA11
	2Y1	8	AP25	58	SA25

TC	IC6706/DATA BUFFER		SIGNAL NAME	IC6802/PC CARD	
	Port Name	Pin No		Pin No	Port Name
28	A1	3	DP16	19	SD0
	A2	4	DP17	18	SD1
	A3	5	DP18	17	SD2
	A4	6	DP19	16	SD3
	A5	7	DP20	14	SD4
	A6	8	DP21	13	SD5
	A7	9	DP22	12	SD6
	A8	10	DP23	11	SD7

TC	IC3405/RTSC		SIGNAL NAME	IC6003/BUFFER	
	Port Name	Pin No		Pin No	Port Name
12 2	HMADR1	56	MSA1	23	4Y4
	HMADR2	57	MSA2	22	4Y3
	HMADR3	58	MSA3	20	4Y2
	HMADR4	59	MSA4	19	4Y1
	HMADR5	60	MSA5	17	3Y4
	HMADR6	61	MSA6	16	3Y3
	HMADR7	62	MSA7	14	3Y2

TC	IC6701/GLUE		SIGNAL NAME	IC6002/BUFFER	
	Port Name	Pin No		Pin No	Port Name
13 1	MSD16	18	MSD16	47	1A1
	MSD17	17	MSD17	46	1A2
	MSD18	16	MSD18	44	1A3
	MSD19	15	MSD19	43	1A4
	MSD20	14	MSD20	41	1A5
	MSD21	13	MSD21	40	1A6
	MSD22	12	MSD22	38	1A7
	MSD23	11	MSD23	37	1A8
	MSD24	9	MSD24	36	2A1
	MSD25	8	MSD25	35	2A2
	MSD26	7	MSD26	33	2A3
	MSD27	6	MSD27	32	2A4
	MSD28	5	MSD28	30	2A5
	MSD29	4	MSD29	29	2A6
	MSD30	3	MSD30	27	2A7
	MSD31	2	MSD31	26	2A8

TC	IC6701/GLUE		SIGNAL NAME	IC6003/BUFFER	
	Port Name	Pin No		Pin No	Port Name
13 2	MSA1	94	MSA1	23	4Y4
	MSA2	95	MSA2	22	4Y3
	MSA3	96	MSA3	20	4Y2
	MSA4	97	MSA4	19	4Y1
	MSA5	98	MSA5	17	3Y4
	MSA6	99	MSA6	16	3Y3
	MSA7	104	MSA7	14	3Y2

TC	IC50003/AV DEC		SIGNAL NAME	IC6002/BUFFER	
	Port Name	Pin No		Pin No	Port Name
14 1	HD0	55	MSD16	47	1A1
	HD1	56	MSD17	46	1A2
	HD2	57	MSD18	44	1A3
	HD3	59	MSD19	43	1A4
	HD4	60	MSD20	41	1A5
	HD5	61	MSD21	40	1A6
	HD6	63	MSD22	38	1A7
	HD7	64	MSD23	37	1A8
	HD8	65	MSD24	36	2A1
	HD9	67	MSD25	35	2A2
	HD10	68	MSD26	33	2A3
	HD11	70	MSD27	32	2A4
	HD12	72	MSD28	30	2A5
	HD13	73	MSD29	29	2A6
	HD14	74	MSD30	27	2A7
	HD15	76	MSD31	26	2A8

TC	IC50003/AV DEC		SIGNAL NAME	IC6003/BUFFER	
	Port Name	Pin No		Pin No	Port Name
14 2	HA1	32	MSA1	23	4Y4
	HA2	33	MSA2	22	4Y3
	HA3	35	MSA3	20	4Y2
	HA4	36	MSA4	19	4Y1
	HA5	37	MSA5	17	3Y4
	HA6	38	MSA6	16	3Y3
	HA7	40	MSA7	14	3Y2

TC	IC6005/CPU		SIGNAL NAME	IC6001,6008/WORKING MEMORY	
	Port Name	Pin No		Pin No	Port Name
15	MD0	205	MD0	2	DQ0
	MD1	206	MD1	4	DQ1
	MD2	207	MD2	5	DQ2
	MD3	208	MD3	7	DQ3
	MD4	209	MD4	8	DQ4
	MD5	210	MD5	10	DQ5
	MD6	211	MD6	11	DQ6
	MD7	212	MD7	13	DQ7
	MD8	213	MD8	42	DQ8
	MD9	214	MD9	44	DQ9
	MD10	217	MD10	45	DQ10
	MD11	218	MD11	47	DQ11
	MD12	219	MD12	48	DQ12
	MD13	222	MD13	50	DQ13
	MD14	223	MD14	51	DQ14
	MD15	224	MD15	53	DQ15
	MA0	256	MA0	23	A0
	MA1	255	MA1	24	A1
	MA2	254	MA2	25	A2
	MA3	253	MA3	26	A3
	MA4	252	MA4	29	A4
	MA5	251	MA5	30	A5
	MA6	250	MA6	31	A6
	MA7	247	MA7	32	A7
	MA8	246	MA8	33	A8
	MA9	245	MA9	34	A9
	MA10	244	MA10	22	A10
	MA11	243	MA11	35	A11
	MA12	242	MA12	36	NC
	MA13	241	MA13	21	A12
	MA14	240	MA14	20	A13

TC	IC3405/RTSC		SIGNAL NAME	IC50003/AV DEC	
	Port Name	Pin No		Pin No	Port Name
16	STD0	40	STD0	88	STD0
	STD1	39	STD1	87	STD1
	STD2	38	STD2	86	STD2
	STD3	37	STD3	85	STD3
	STD4	36	STD4	84	STD4
	STD5	35	STD5	83	STD5
	STD6	34	STD6	82	STD6
	STD7	33	STD7	81	STD7

TC	IC37002/8bit CONVERTER		SIGNAL NAME	IC37001/DV DEC	
	Port Name	Pin No		Pin No	Port Name
22	D0	6	R656DD0	49	D0
	D1	7	R656DD1	48	D1
	D2	8	R656DD2	45	D2
	D3	9	R656DD3	44	D3
	D4	10	R656DD4	42	D4
	D5	11	R656DD5	41	D5
	D6	12	R656DD6	39	D6
	D7	13	R656DD7	38	D7

TC	IC50003/AV DEC		SIGNAL NAME	IC50012/DV I/O	
	Port Name	Pin No		Pin No	Port Name
24	VDOUT0	140	R656DD0	2	I0
	VDOUT1	141	R656DD1	3	I1
	VDOUT2	142	R656DD2	4	I2
	VDOUT3	143	R656DD3	5	I3
	VDOUT4	145	R656DD4	6	I4
	VDOUT5	146	R656DD5	7	I5
	VDOUT6	147	R656DD6	8	I6
	VDOUT7	149	R656DD7	9	I7

TC	IC50003/AV DEC		SIGNAL NAME	IC50002/SDRAM	
	Port Name	Pin No		Pin No	Port Name
8	MDQ0	17	DQ0	2	DQ0
	MDQ1	14	DQ1	4	DQ1
	MDQ2	11	DQ2	5	DQ2
	MDQ3	8	DQ3	7	DQ3
	MDQ4	6	DQ4	8	DQ4
	MDQ5	3	DQ5	10	DQ5
	MDQ6	207	DQ6	11	DQ6
	MDQ7	205	DQ7	13	DQ7
	MDQ8	206	DQ8	42	DQ8
	MDQ9	2	DQ9	44	DQ9
	MDQ10	4	DQ10	45	DQ10
	MDQ11	7	DQ11	47	DQ11
	MDQ12	9	DQ12	48	DQ12
	MDQ13	13	DQ13	50	DQ13
	MDQ14	16	DQ14	51	DQ14
	MDQ15	18	DQ15	53	DQ15
	MA0	183	A0	23	A0
	MA1	181	A1	24	A1
	MA2	178	A2	25	A2
	MA3	176	A3	26	A3
	MA4	177	A4	29	A4
	MA5	179	A5	30	A5
	MA6	182	A6	31	A6
	MA7	188	A7	32	A7
	MA8	191	A8	33	A8
	MA9	196	A9	34	A9
	MA10	189	A10	22	A10
	MA11	192	A11	35	A11

TC	IC50003/AV DEC		SIGNAL NAME	IC50004/SDRAM	
	Port Name	Pin No		Pin No	Port Name
9	MDQ16	171	DQ16	2	DQ0
	MDQ17	168	DQ17	4	DQ1
	MDQ18	166	DQ18	5	DQ2
	MDQ19	163	DQ19	7	DQ3
	MDQ20	160	DQ20	8	DQ4
	MDQ21	158	DQ21	10	DQ5
	MDQ22	154	DQ22	11	DQ6
	MDQ23	151	DQ23	13	DQ7
	MDQ24	150	DQ24	42	DQ8
	MDQ25	153	DQ25	44	DQ9
	MDQ26	155	DQ26	45	DQ10
	MDQ27	159	DQ27	47	DQ11
	MDQ28	162	DQ28	48	DQ12
	MDQ29	164	DQ29	50	DQ13
	MDQ30	167	DQ30	51	DQ14
	MDQ31	169	DQ31	53	DQ15
	MA0	183	A0	23	A0
	MA1	181	A1	24	A1
	MA2	178	A2	25	A2
	MA3	176	A3	26	A3
	MA4	177	A4	29	A4
	MA5	179	A5	30	A5
	MA6	182	A6	31	A6
	MA7	188	A7	32	A7
	MA8	191	A8	33	A8
	MA9	196	A9	34	A9
	MA10	189	A10	22	A10
	MA11	192	A11	35	A11

TC	IC3203/VAD CON		SIGNAL NAME	IC6002/BUFFER	
	Port Name	Pin No		Pin No	Port Name
10 1	MDA0	129	MSD16	47	1A1
	MDA1	128	MSD17	46	1A2
	MDA2	127	MSD18	44	1A3
	MDA3	126	MSD19	43	1A4
	MDA4	124	MSD20	41	1A5
	MDA5	123	MSD21	40	1A6
	MDA6	122	MSD22	38	1A7
	MDA7	121	MSD23	37	1A8
	MDA8	118	MSD24	36	2A1
	MDA9	117	MSD25	35	2A2
	MDA10	116	MSD26	33	2A3
	MDA11	115	MSD27	32	2A4
	MDA12	113	MSD28	30	2A5
	MDA13	112	MSD29	29	2A6
	MDA14	111	MSD30	27	2A7
	MDA15	110	MSD31	26	2A8

TC	IC3203/VAD CON		SIGNAL NAME	IC6003/BUFFER	
	Port Name	Pin No		Pin No	Port Name
10 2	MD0	107	MSA1	23	4Y4
	MD1	106	MSA2	22	4Y3
	MD2	105	MSA3	20	4Y2
	MD3	104	MSA4	19	4Y1
	MD4	103	MSA5	17	3Y4
	MD5	102	MSA6	16	3Y3
	MD6	101	MSA7	14	3Y2

TC	IC3402/AV ENC		SIGNAL NAME	IC6002/BUFFER	
	Port Name	Pin No		Pin No	Port Name
11 1	HD0	81	MSD16	47	1A1
	HD1	82	MSD17	46	1A2
	HD2	85	MSD18	44	1A3
	HD3	86	MSD19	43	1A4
	HD4	88	MSD20	41	1A5
	HD5	89	MSD21	40	1A6
	HD6	90	MSD22	38	1A7
	HD7	92	MSD23	37	1A8
	HD8	93	MSD24	36	2A1
	HD9	94	MSD25	35	2A2
	HD10	97	MSD26	33	2A3
	HD11	98	MSD27	32	2A4
	HD12	99	MSD28	30	2A5
	HD13	101	MSD29	29	2A6
	HD14	102	MSD30	27	2A7
	HD15	103	MSD31	26	2A8

TC	IC3402/AV ENC		SIGNAL NAME	IC6003/BUFFER	
	Port Name	Pin No		Pin No	Port Name
11 2	HA0	106	MSA1	23	4Y4
	HA1	107	MSA2	22	4Y3
	HA2	108	MSA3	20	4Y2
	HA3	109	MSA4	19	4Y1
	HA4	105	MSA5	17	3Y4

TC	IC3405/RTSC		SIGNAL NAME	IC6002/BUFFER	
	Port Name	Pin No		Pin No	Port Name
12 1	HMDT16	99	MSD16	47	1A1
	HMDT17	98	MSD17	46	1A2
	HMDT18	97	MSD18	44	1A3
	HMDT19	96	MSD19	43	1A4
	HMDT20	95	MSD20	41	1A5
	HMDT21	94	MSD21	40	1A6
	HMDT22	93	MSD22	38	1A7
	HMDT23	92	MSD23	37	1A8
	HMDT24	89	MSD24	36	2A1
	HMDT25	88	MSD25	35	2A2
	HMDT26	87	MSD26	33	2A3
	HMDT27	86	MSD27	32	2A4
	HMDT28	85	MSD28	30	2A5
	HMDT29	84	MSD29	29	2A6
	HMDT30	83	MSD30	27	2A7
	HMDT31	82	MSD31	26	2A8

TC	IC3203/VAD CON		IC3402/AV ENC	
	Port Name	Pin No	SIGNAL NAME	Pin No
1	R656OUT0	141	R656ENC0	17
	R656OUT1	140	R656ENC1	18
	R656OUT2	139	R656ENC2	20
	R656OUT3	138	R656ENC3	21
	R656OUT4	135	R656ENC4	23
	R656OUT5	134	R656ENC5	24
	R656OUT6	133	R656ENC6	25
	R656OUT7	132	R656ENC7	26

TC	IC3402/AV ENC		IC3405/RTSC	
	Port Name	Pin No	SIGNAL NAME	Pin No
2	CDO0	63	CDO0	16
	CDO1	64	CDO1	17
	CDO2	65	CDO2	18
	CDO3	67	CDO3	19
	CDO4	68	CDO4	20
	CDO5	69	CDO5	21
	CDO6	72	CDO6	22
	CDO7	73	CDO7	23

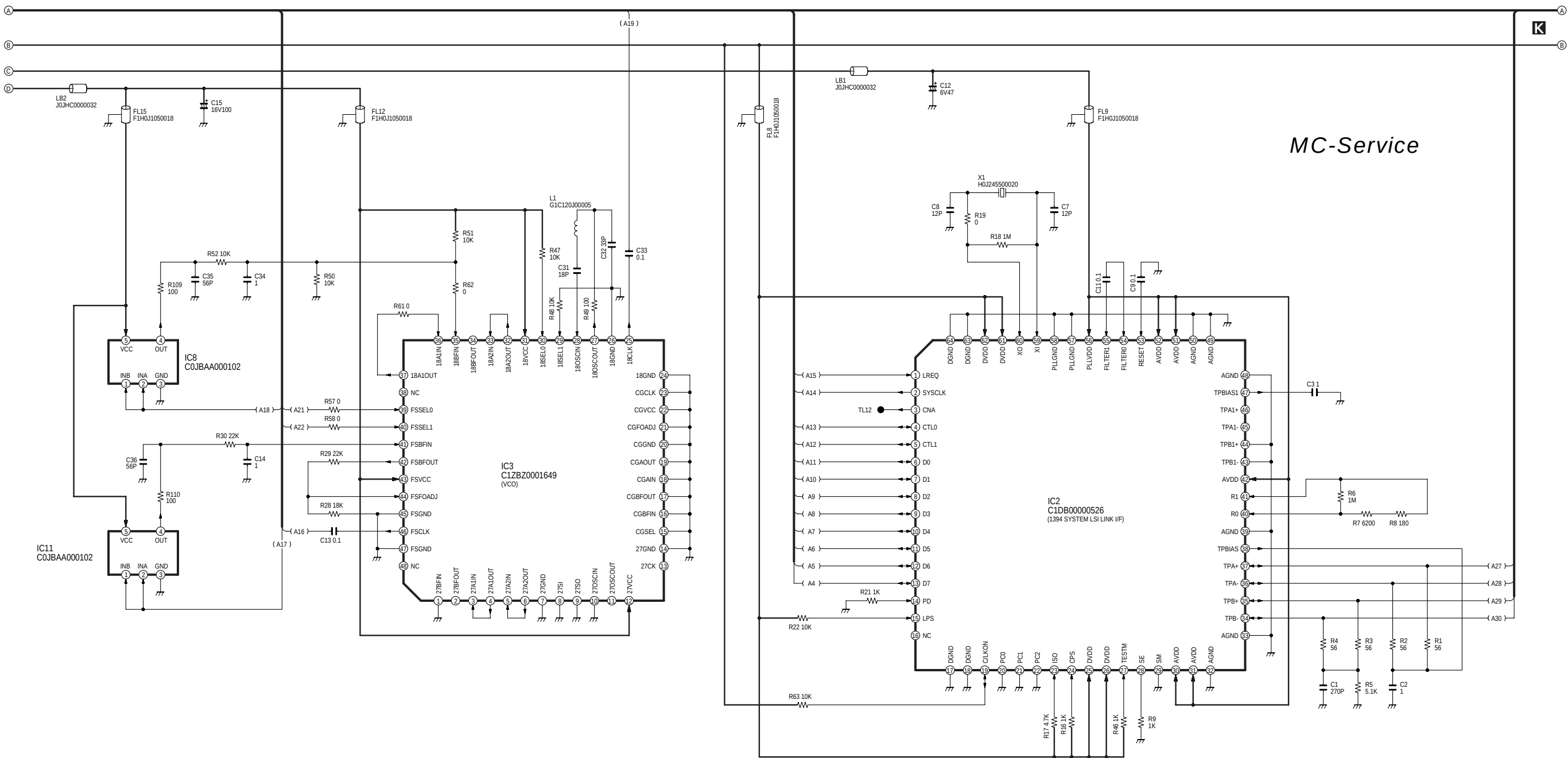
TC	IC3405/RTSC		P3401 (DVD RAM)	
	Port Name	Pin No	SIGNAL NAME	Pin No
3	S1DB0	165	RAMD0	17
	S1DB1	167	RAMD1	15
	S1DB2	170	RAMD2	13
	S1DB3	172	RAMD3	11
	S1DB4	175	RAMD4	9
	S1DB5	177	RAMD5	7
	S1DB6	180	RAMD6	5
	S1DB7	182	RAMD7	3
	S1DB8	181	RAMD8	4
	S1DB9	179	RAMD9	6
	S1DB10	176	RAMD10	8
	S1DB11	174	RAMD11	10
	S1DB12	171	RAMD12	12
	S1DB13	169	RAMD13	14
	S1DB14	166	RAMD14	16
	S1DB15	164	RAMD15	18

TC	IC3203/VAD CON		IC3201/SDRAM	
	Port Name	Pin No	SIGNAL NAME	Pin No
4	M0DT0	63	DT0	2
	M0DT1	62	DT1	3
	M0DT2	60	DT2	5
	M0DT3	59	DT3	6
	M0DT4	57	DT4	8
	M0DT5	56	DT5	9
	M0DT6	54	DT6	11
	M0DT7	53	DT7	12
	M0DT8	50	DT8	39
	M0DT9	49	DT9	40
	M0DT10	47	DT10	42
	M0DT11	46	DT11	43
	M0DT12	44	DT12	45
	M0DT13	43	DT13	46
	M0DT14	41	DT14	48
	M0DT15	40	DT15	49
	M0AD0	83	AD0	21
	M0AD1	82	AD1	22
	M0AD2	80	AD2	23
	M0AD3	79	AD3	24
	M0AD4	76	AD4	27
	M0AD5	75	AD5	28
	M0AD6	73	AD6	29
	M0AD7	72	AD7	30
	M0AD8	70	AD8	31
	M0AD9	69	AD9	32
	M0AP	67	AD10	20
	MOBA	66	AD11	19

TC	IC3402/AV ENC		IC3401/SDRAM	
	Port Name	Pin No	SIGNAL NAME	Pin No
5	MDQ0	124	MDQA0	2
	MDQ1	125	MDQA1	4
	MDQ2	127	MDQA2	5
	MDQ3	128	MDQA3	7
	MDQ4	130	MDQA4	8
	MDQ5	131	MDQA5	10
	MDQ6	133	MDQA6	11
	MDQ7	134	MDQA7	13
	MDQ8	137	MDQA8	74
	MDQ9	138	MDQA9	76
	MDQ10	140	MDQA10	77
	MDQ11	141	MDQA11	79
	MDQ12	143	MDQA12	80
	MDQ13	144	MDQA13	82
	MDQ14	146	MDQA14	83
	MDQ15	147	MDQA15	85
	MDQ16	150	MDQA16	31
	MDQ17	151	MDQA17	33
	MDQ18	153	MDQA18	34
	MDQ19	154	MDQA19	36
	MDQ20	158	MDQA20	37
	MDQ21	159	MDQA21	39
	MDQ22	161	MDQA22	40
	MDQ23	162	MDQA23	42
	MDQ24	165	MDQA24	45
	MDQ25	166	MDQA25	47
	MDQ26	168	MDQA26	48
	MDQ27	169	MDQA27	50
	MDQ28	186	MDQA28	51
	MDQ29	187	MDQA29	53
	MDQ30	190	MDQA30	54
	MDQ31	191	MDQA31	56

TC	IC3405/RTSC		IC3403,IC3404/SDRAM	
	Port Name	Pin No	SIGNAL NAME	Pin No
6	MDQ0	184	MADQ80	2
	MDQ1	186	MADQ81	4
	MDQ2	188	MADQ82	5
	MDQ3	191	MADQ83	7
	MDQ4	195	MADQ84	8
	MDQ5	197	MADQ85	10
	MDQ6	199	MADQ86	11
	MDQ7	201	MADQ87	13
	MDQ8	202	MADQ88	42
	MDQ9	200	MADQ89	44
	MDQ10	198	MADQ810	45
	MDQ11	196	MADQ811	47
	MDQ12	194	MADQ812	48
	MDQ13	190	MADQ813	50
	MDQ14	187	MADQ814	51
	MDQ15	185	MADQ815	53

TC	IC3203/VAD CON		IC50003/AV DEC	
	Port Name	Pin No	SIGNAL NAME	Pin No
7	R656OUT0	141	R656ENC0	138
	R656OUT1	140	R656ENC1	137
	R656OUT2	139	R656ENC2	136
	R656OUT3	138	R656ENC3	134
	R656OUT4	135	R656ENC4	133
	R656OUT5	134	R656ENC5	132
	R656OUT6	133	R656ENC6	130
	R656OUT7	132	R656ENC7	129



G

F

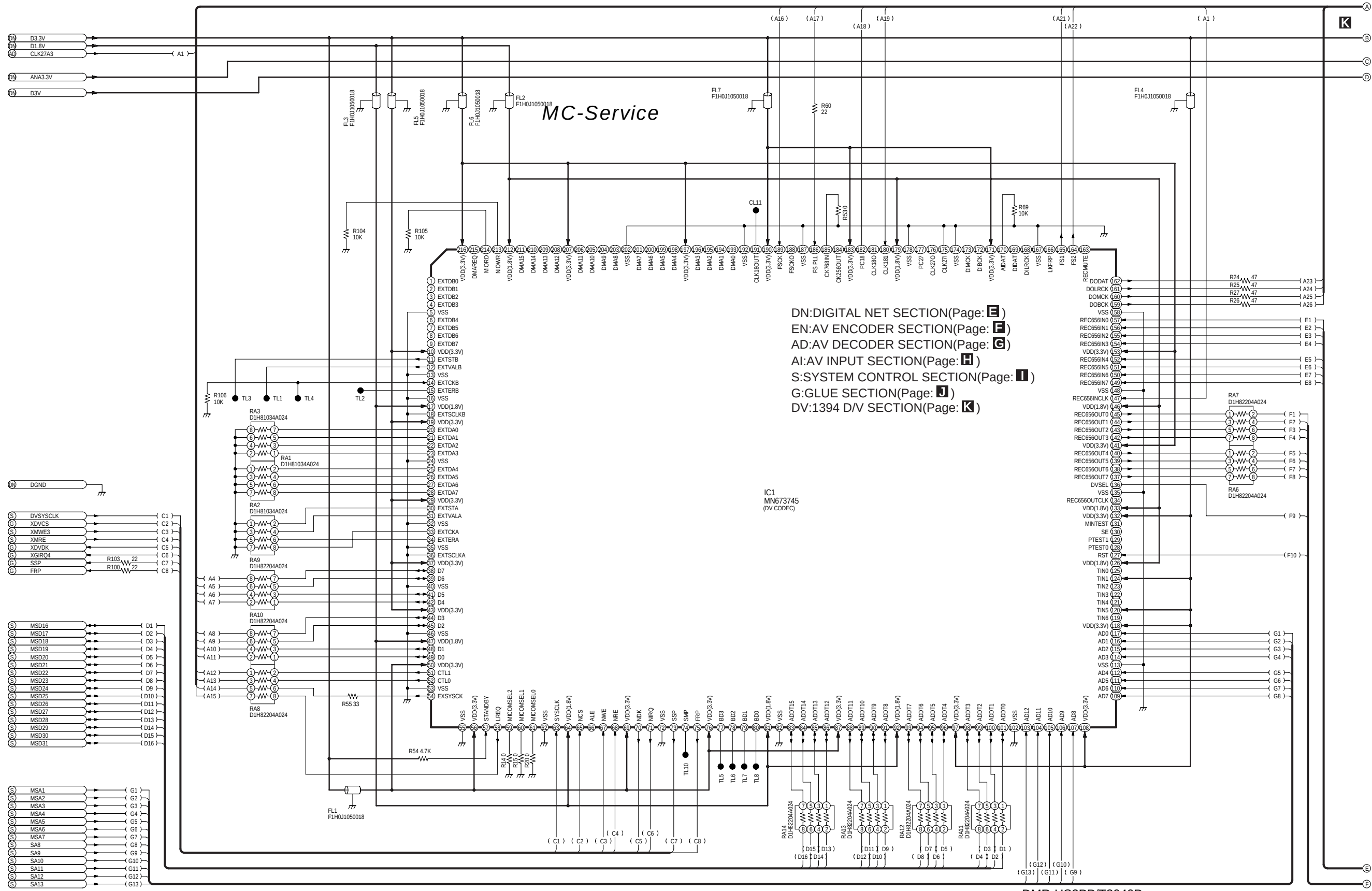
E

D

C

B

A



DN: DIGITAL NET SECTION (Page: E)
EN: AV ENCODER SECTION (Page: F)
AD: AV DECODER SECTION (Page: G)
AI: AV INPUT SECTION (Page: H)
S: SYSTEM CONTROL SECTION (Page: I)
G: GLUE SECTION (Page: J)
DV: 1394 D/V SECTION (Page: K)

Accessories

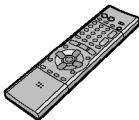


Please check and identify the supplied accessories. Use numbers indicated in parentheses when asking for replacement parts.

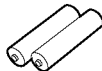
Only for U.S.A.: To order accessories contact 1-800-332-5368 or web site (<http://www.panasonic.com>).

Only for Canada: To order accessories, call the dealer from whom you made your purchase.

- ☐ **1 Remote control**
(EUR7615KF0)



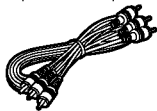
- ☐ **2 Batteries**
for remote control



- ☐ **1 AC power supply cord**
(RJA0065-A)



- ☐ **1 Audio/Video cable**
(VJA0788)



- ☐ **1 75 Ω coaxial cable**
(VJA1091)



- ☐ **1 Cleaning cloth**
for cleaning the mirror section on the front of the unit
(RFE0088-1)



- ☐ **1 DVD-RAM disc**



Note

The included AC power supply cord is for use with this unit only. Do not use it with other equipment.

(U.S.A. only)

Product Registration Card

Please complete and return the included product registration card, or register via the Internet at: <http://www.prodreg.com/panasonic/>

- This unit is compatible with DCF* based, still picture (JPEG) files recorded using a digital camera.
- *Design rule for Camera File system: unified standard established by Japan Electronics and Information Technology Industries Association (JEITA).
- **Picture definition:**
Compatible in the range 320 × 240 – 6144 × 4096 (sub sampling is 4:2:2 or 4:2:0)
- This unit can handle a maximum of **300 folders** (including header folders) and **3,000 files**. Files and folders with numbers which exceed the maximum cannot be displayed, copied or erased.
- This unit displays only still pictures conforming to DCF standards and JPEG still pictures. It cannot display moving pictures, MOTION JPEG and other such formats, still pictures other than JPEG (i.e. TIFF) or play associated sound.
- When there are a lot of folders and files, it may take a long time to display, copy or erase.
- Folder titles that were input on equipment other than this unit may not be displayed properly.
- When saving still pictures on HDD, it is recommended that you copy them to the PC card or DVD-RAM also.

Folders that can be displayed/saved



Still pictures (denoted as Filename : xxxxxxxx.JPG) saved in folders () as shown below can be displayed/saved.

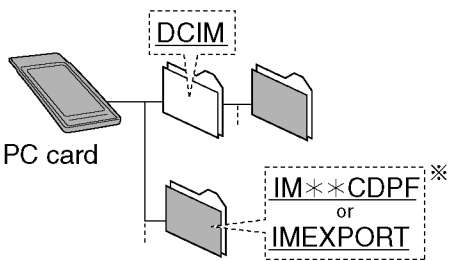
Folders (including the still pictures inside those folders) below the compatible folder cannot be displayed or saved.

- 
 : Compatible folder

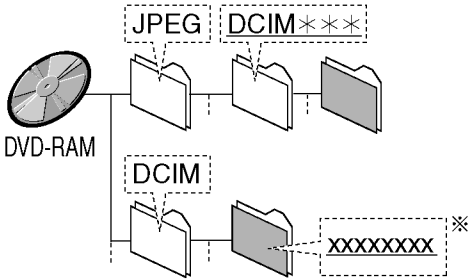
**: Numbers
- 
 : Upper level folder

× ×: Letters

PC card



DVD-RAM



- Note**
- You may select any underlined folder for display.
 - Copying cannot be carried out to folders (※) made on other equipment.
 - The folder cannot be displayed if the numbers are all “0” (e.g., DCIM 000 etc).

PC cards capable of displaying and saving

- SD Memory Card*
- Multi Media Card*
- Compact Flash*
- Smart Media*
- Memory Stick*
- ATA Flash PC card

* A PC card adapter conforming to PC card standards is necessary.

- **Compatible with:** FAT 12 or FAT 16
- This unit is compatible with Type II PC cards. Do not insert any other type of PC card.
- This unit is not compatible with card type hard disks (Microdrives etc).
- Use this unit to format a PC card when using for the first time. Note that the PC card may no longer be usable on other equipment once formatted on this unit.
- This unit operates in accordance with the Digital Print Order Format. (PC card only)
- Only use the memory cards recommended above.

■ Regarding Write Protect

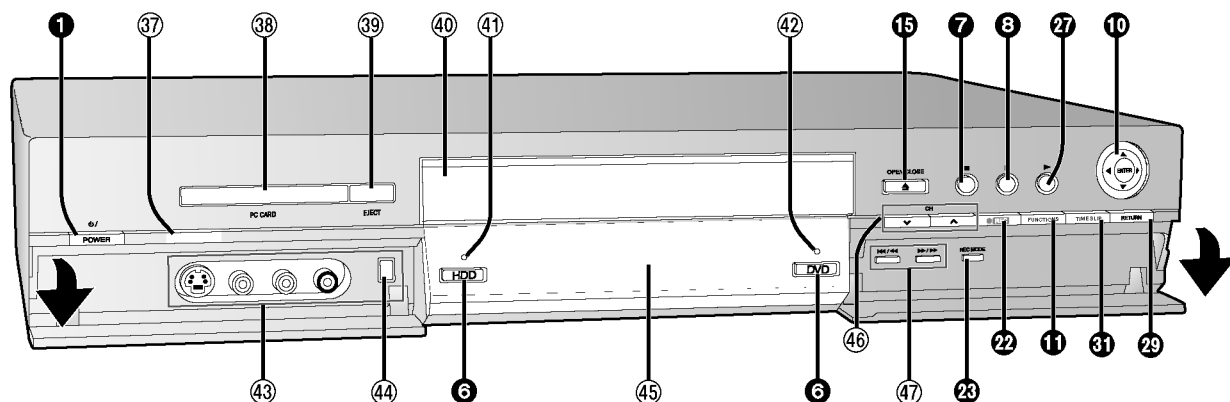
For cards that come provided with a write protect switch, if the switch is on it will not be possible to write, erase or format the card.

■ The card indicator (**CARD**) in the display

Please carry out insertion and removal of the PC card after turning the unit off.

The indicator flashes when the data is being written to or read from the card. Do not turn off the power or remove the card at such a time. Should you do so, the unit may malfunction or the contents of the card may be damaged.

Main unit



Controls such as **1** function the same as the buttons on the remote control.

37 Remote control signal sensor

38 PC card slot (PC CARD)

39 Card eject button (EJECT)

40 Disc tray

41 HDD record lamp

42 DVD record lamp

43 L2 input terminals (L2)

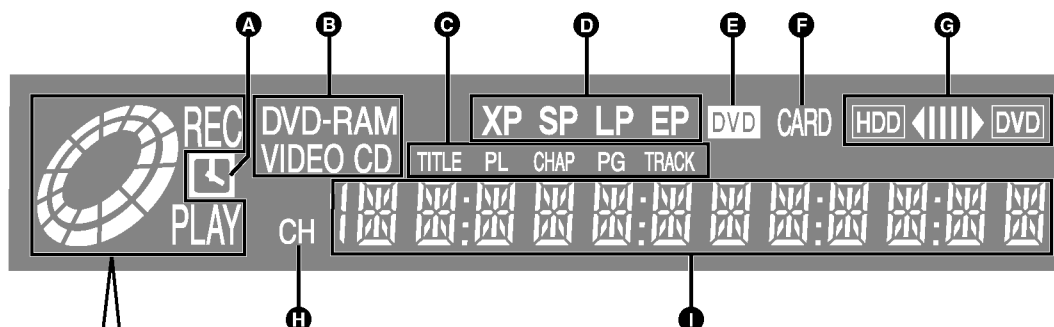
44 DV input terminal (DV INPUT)

45 Display

46 Channel buttons for recorder (v, ^, CH)

47 Skip/Slow/Search buttons (◀◀/◀, ▶/▶▶)

The unit's display



Center circle (e.g., DVD-RAM)

Rotating (REC): recording

Stopped (REC): recording paused

Rotating (REC, PLAY):

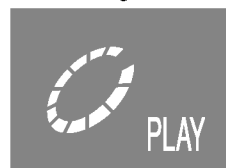
Chasing play or simultaneous
rec and play is in progress

Rotating (PLAY): playing

Stopped (PLAY): play paused

"PLAY" flashes:

the resume function
is working



A Timer recording display

On: When timer recording is on standby

Flashes: When the unit couldn't go to timer recording standby

B Disc type

C The display mode of the main display section

TITLE: Title number

CHAP: Chapter number

TRACK: Track number

PG: Program number

PL: Play list number

D Recording mode

E DVD indicator

Flashes: When you press [⏻, DVD POWER] to turn the unit off
until it actually turns off

F Card indicator

On: When a PC card is set in the unit

Flashes: When a PC card is being read/written to

G Dubbing direction indicator

H Channel

I Main display section

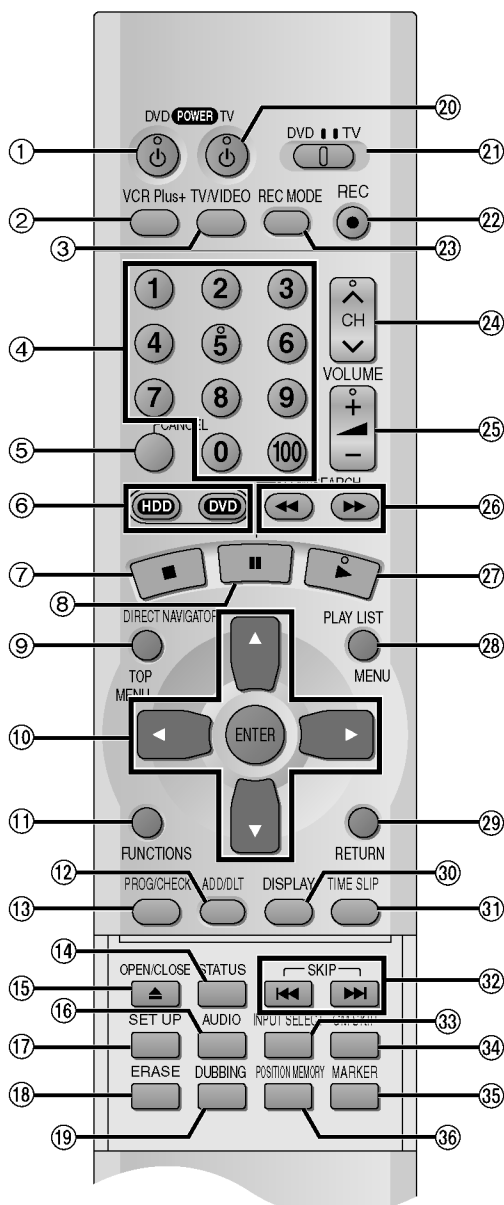
Recording and play counter, and other miscellaneous messages

Note

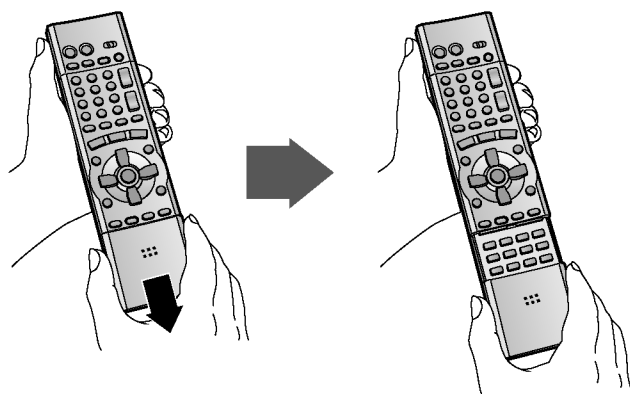
A half mirror is used for the unit display so the display may occasionally be difficult to see depending on surrounding conditions.

MC-Service

Remote control



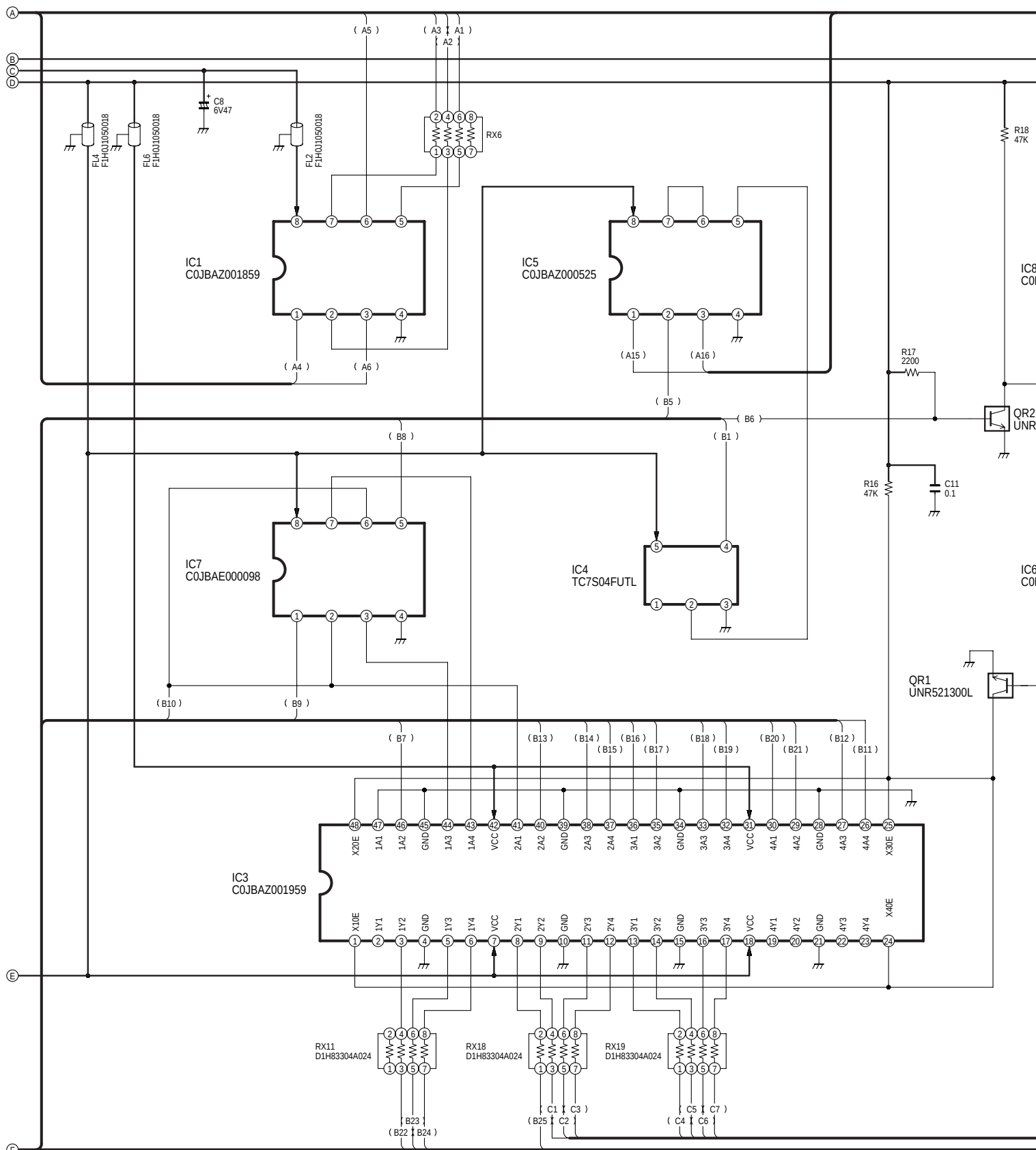
How to open the remote control



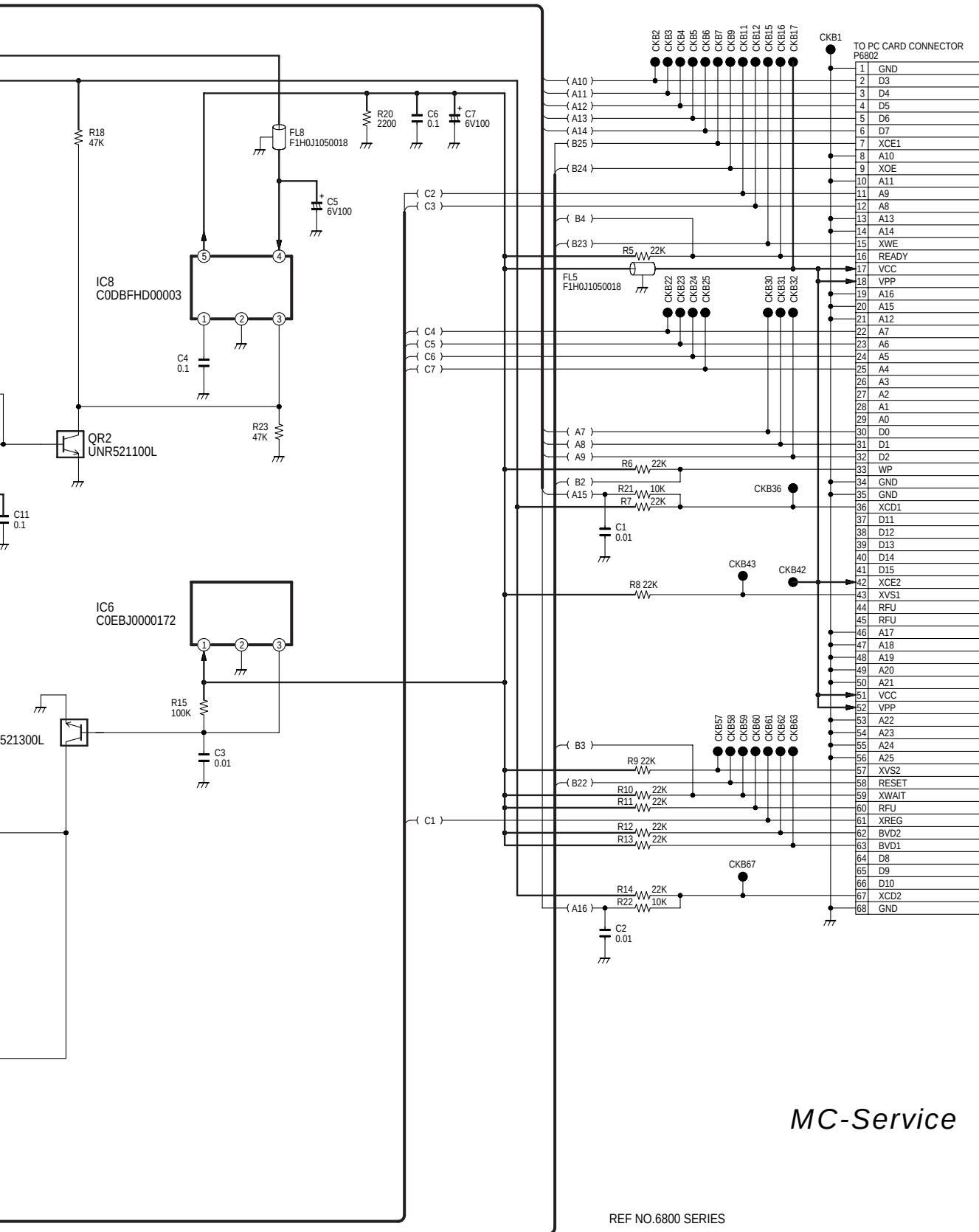
Hold both sides of the remote control's cover to open it. (You can also open it by pressing on the center of it and sliding it down.)

- ① **POWER button** (⏻, DVD **POWER**)
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
- ② **VCR Plus+ button** (VCR Plus+)
- ③ **Television input mode selector** (TV/VIDEO)
- ④ **Numbered buttons (1–9, 0, 100)**
• See also DVD/TV switch (⑳).
• When selecting a title, chapter, track, program, or play list
 RAM **DVD-R** **DVD-V** **CD** **VCD**
 e.g., “5”: [0] → [5]
 “15”: [1] → [5]
• When selecting a hard disk item, a page of play list scene, or a still picture
 CARD **HDD** **RAM**
 e.g., “5”: [0] → [0] → [5]
 “15”: [0] → [1] → [5]
• When selecting a television channel
 e.g., “5”: [0] → [5]
 “15”: [1] → [5]
 “115”: [100] → [1] → [5]
- ⑤ **Cancel button** (CANCEL)
- ⑥ **Drive select buttons** (HDD, DVD)
- ⑦ **Stop button** (■)
- ⑧ **Pause button** (⏸)
- ⑨ **Top menu and Direct Navigator button** (TOP MENU, DIRECT NAVIGATOR)
- ⑩ **Cursor buttons** (▲, ▼, ◀, ▶)/Enter button (ENTER)
- ⑪ **Functions button** (FUNCTIONS)
- ⑫ **Manual channel adding and deleting button** (ADD/HLT)
- ⑬ **Manual programming and check button** (PROG/CHECK)
- ⑭ **On-screen display button** (STATUS)
- ⑮ **Disc tray open/close button** (▲ OPEN/CLOSE)
- ⑯ **Audio button** (AUDIO)
- ⑰ **Setup button** (SET UP)
- ⑱ **Program/play list/still picture erase button** (ERASE)
- ⑲ **Dubbing button** (DUBBING)
- ⑳ **TV power on/off button** (⏻, **POWER** TV)
- ㉑ **DVD/TV switch** (DVD, TV)
• When selecting the receiving channel on this unit using channel button (㉔) and numbered buttons (④) or inputting using numbered buttons (④), make sure you switch [DVD, TV] to “DVD”.
• When selecting channel for the television using channel button (㉔) and numbered buttons (④), make sure you switch [DVD, TV] to “TV”.
- ㉒ **Recording button** (● REC)
- ㉓ **Recording mode button** (REC MODE)
- ㉔ **Channel buttons for recorder and TV** (▲ ▼, CH)
- ㉕ **TV volume buttons** (+ −, VOLUME)
- ㉖ **Slow/search buttons** (◀◀, ▶▶ SLOW/SEARCH)
- ㉗ **Play button** (▶)
- ㉘ **Menu and Play List button** (MENU, PLAY LIST)
- ㉙ **Return button** (RETURN)
- ㉚ **Display button** (DISPLAY)
- ㉛ **Time slip button** (TIME SLIP)
- ㉜ **Skip buttons** (◀◀, ▶▶ SKIP)
- ㉝ **Input select button** (INPUT SELECT)
- ㉞ **One-minute skip button** (CM SKIP)
- ㉟ **Marker button** (MARKER)
- ㊱ **Position memory button** (POSITION MEMORY)





DMR-HS2PP/T3040P
PC Card Schematic Diagram(PC Card P.C.B.(2/2))



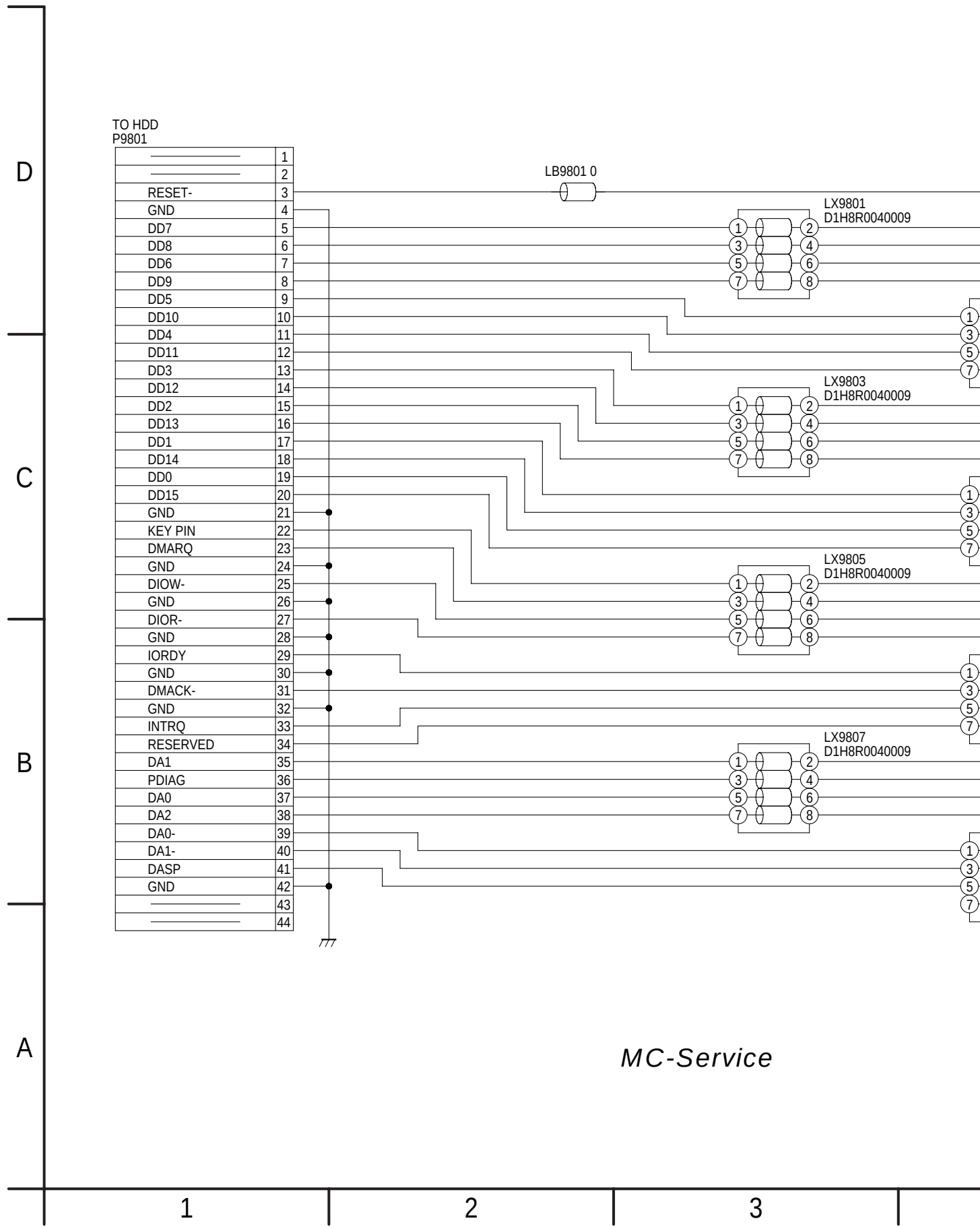
MC-Service

REF NO.6800 SERIES

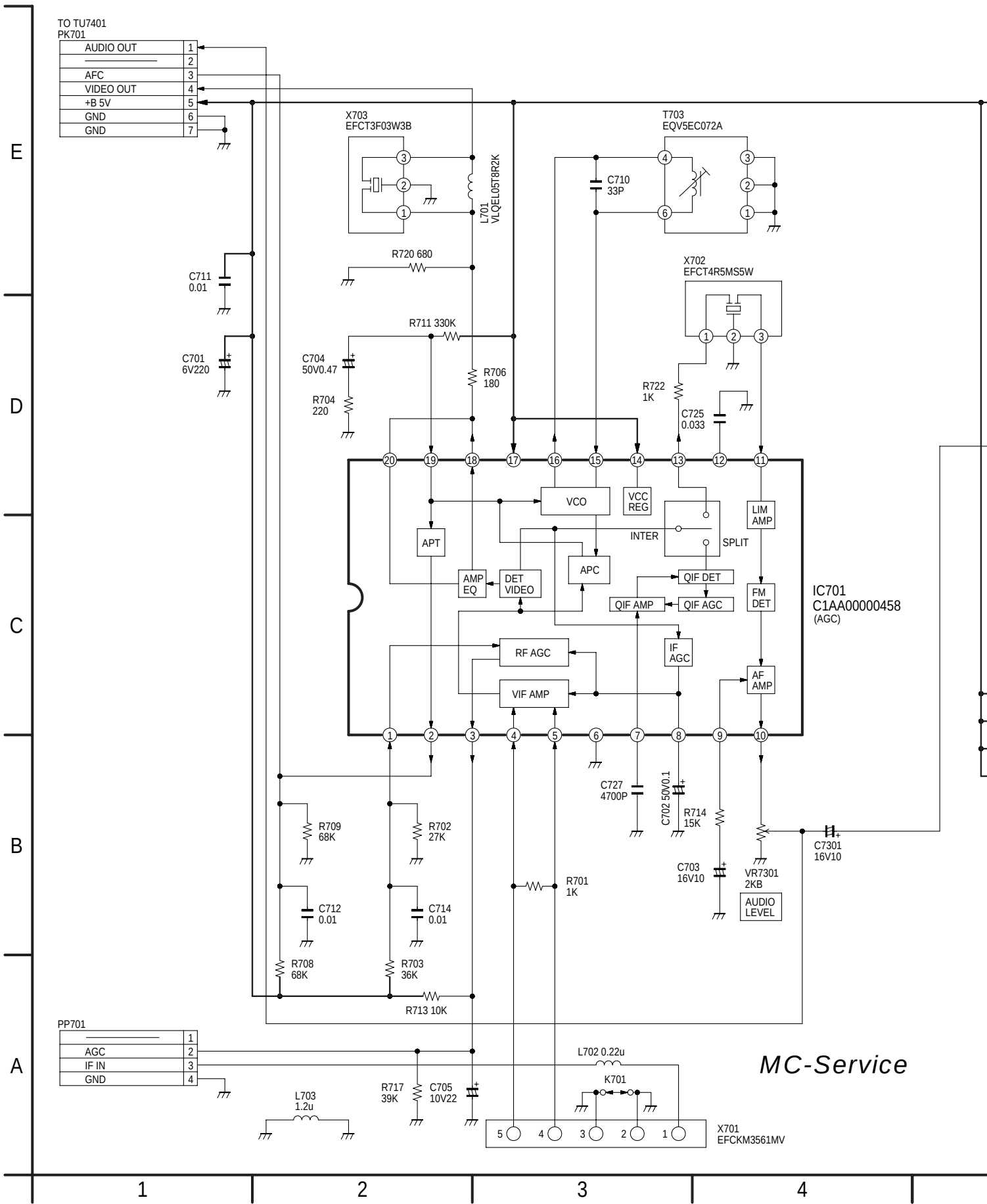
DMR-HS2PP/T3040P
PC Card Schematic Diagram



15.16. ATAPI Schematic Diagram

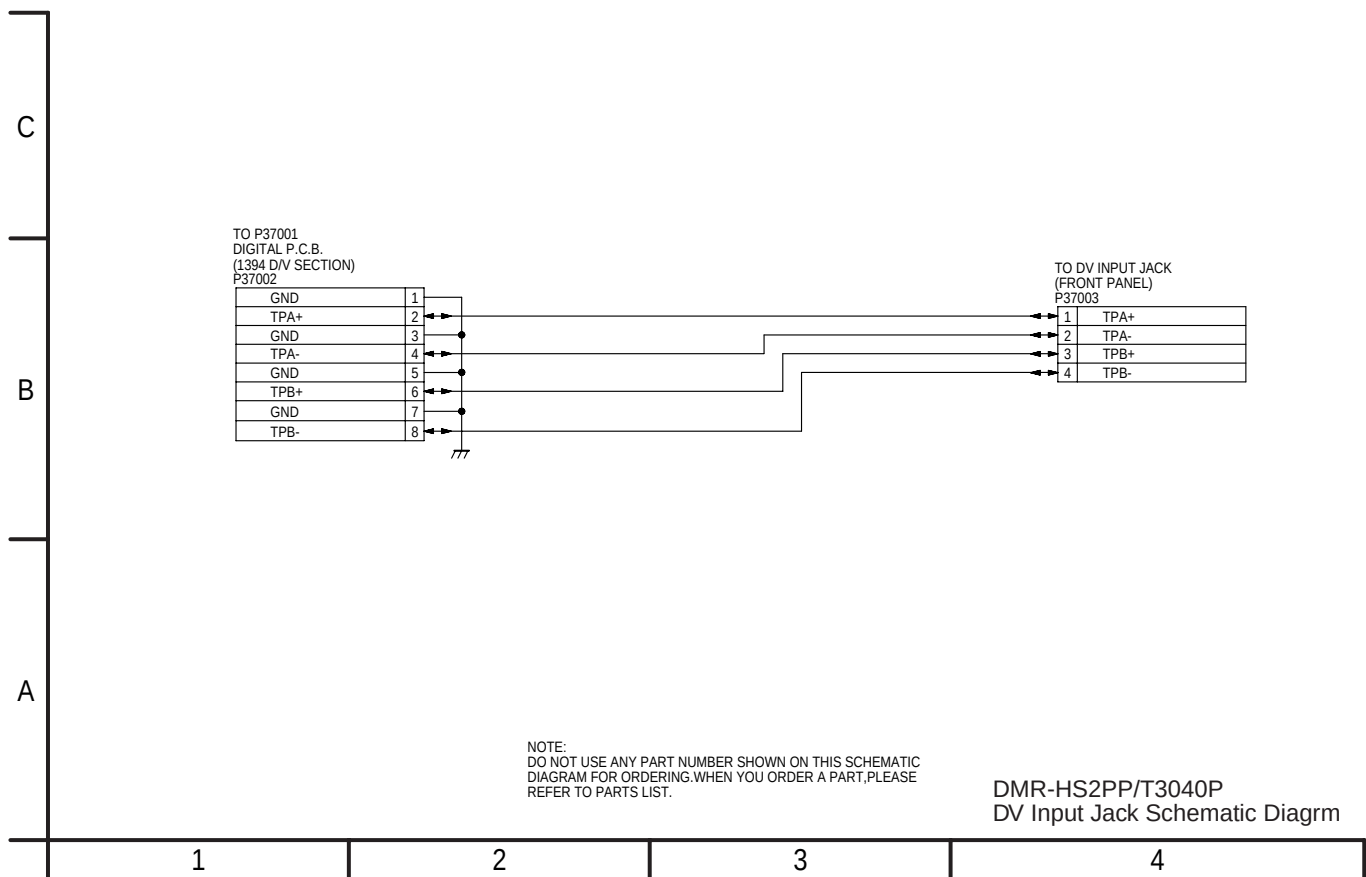


15.17. Demodu/Decoder Schematic Diagram

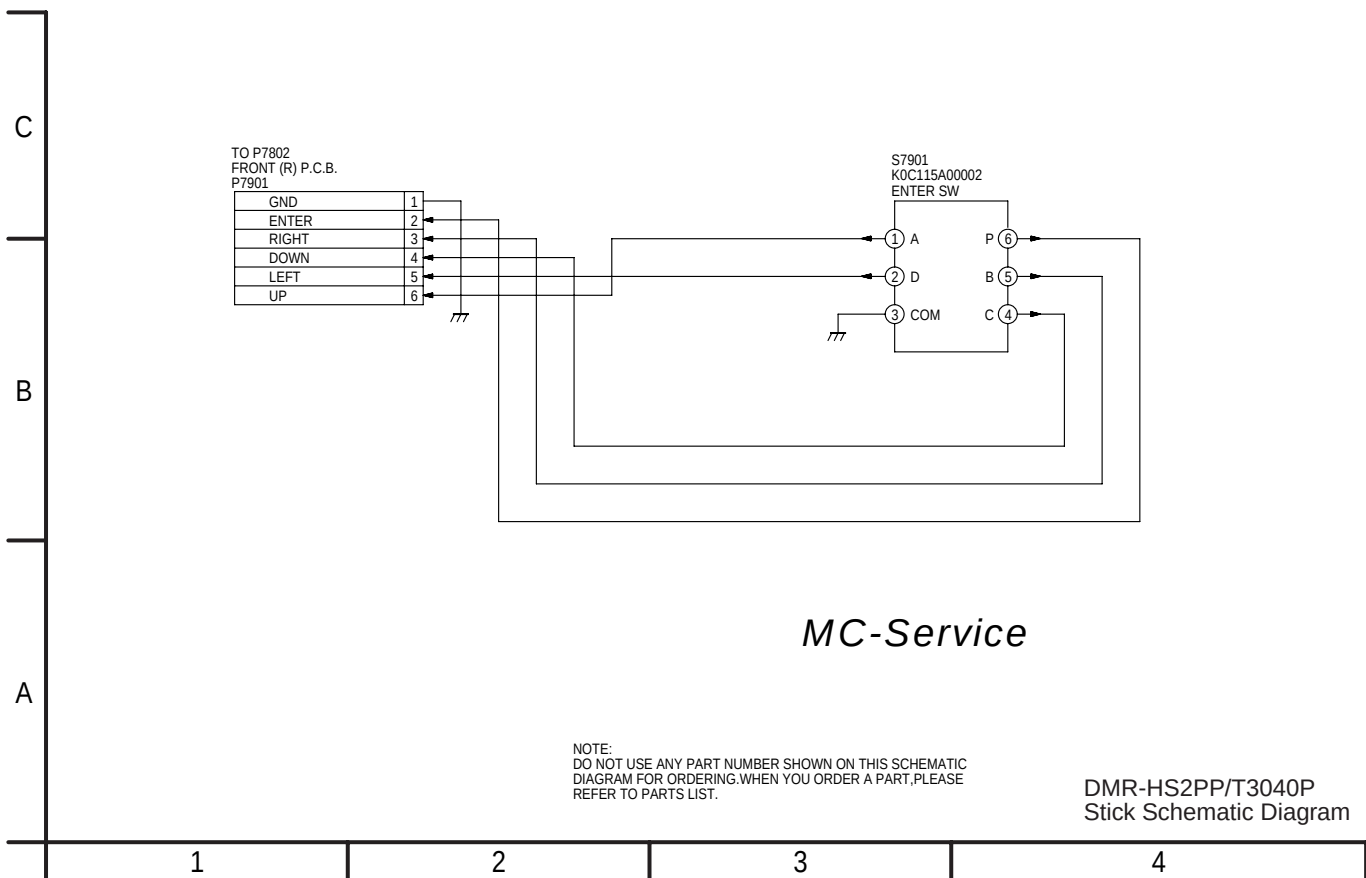




15.18. DV Input Jack Schematic Diagram



15.19. Stick Schematic Diagram





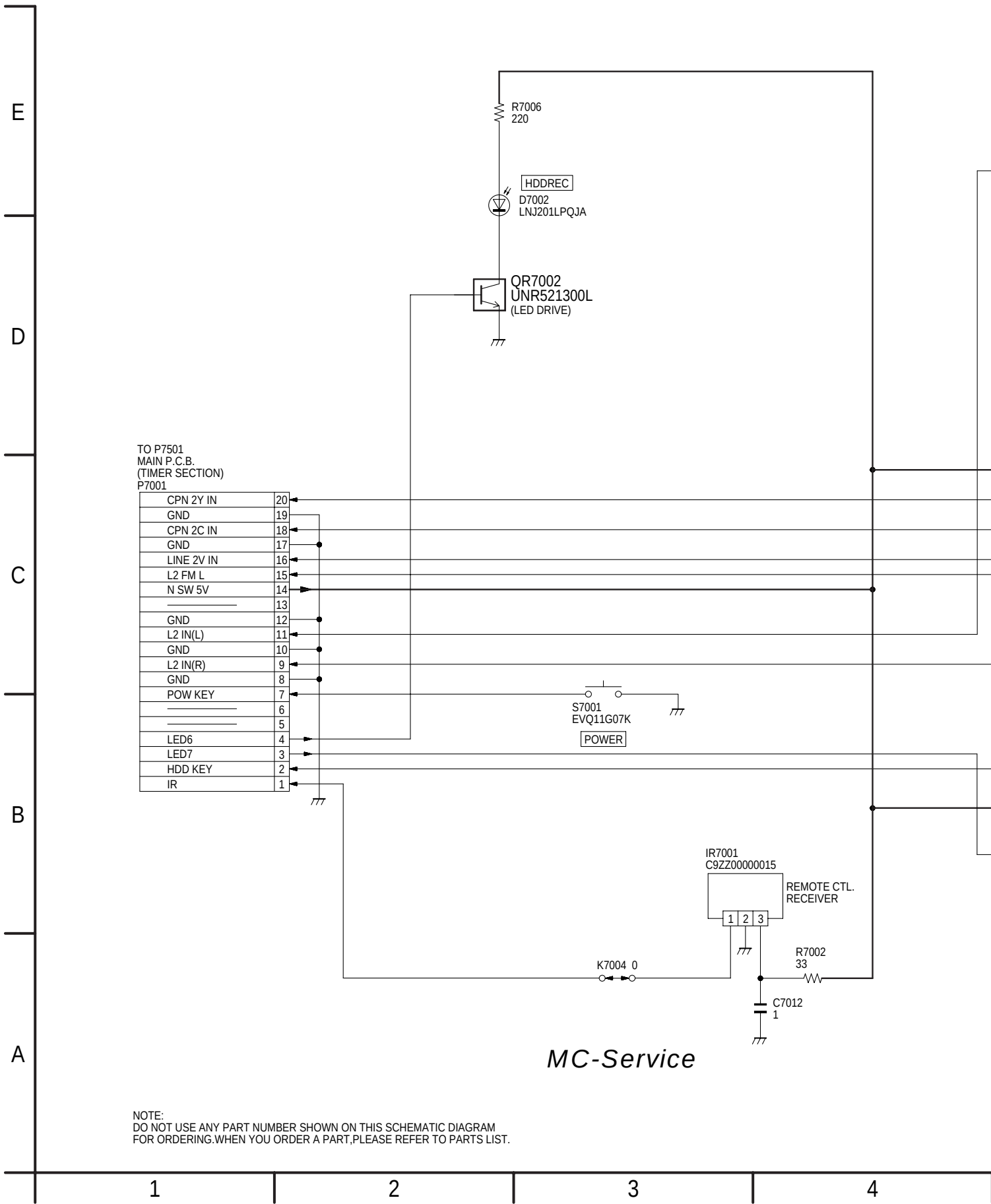
gram

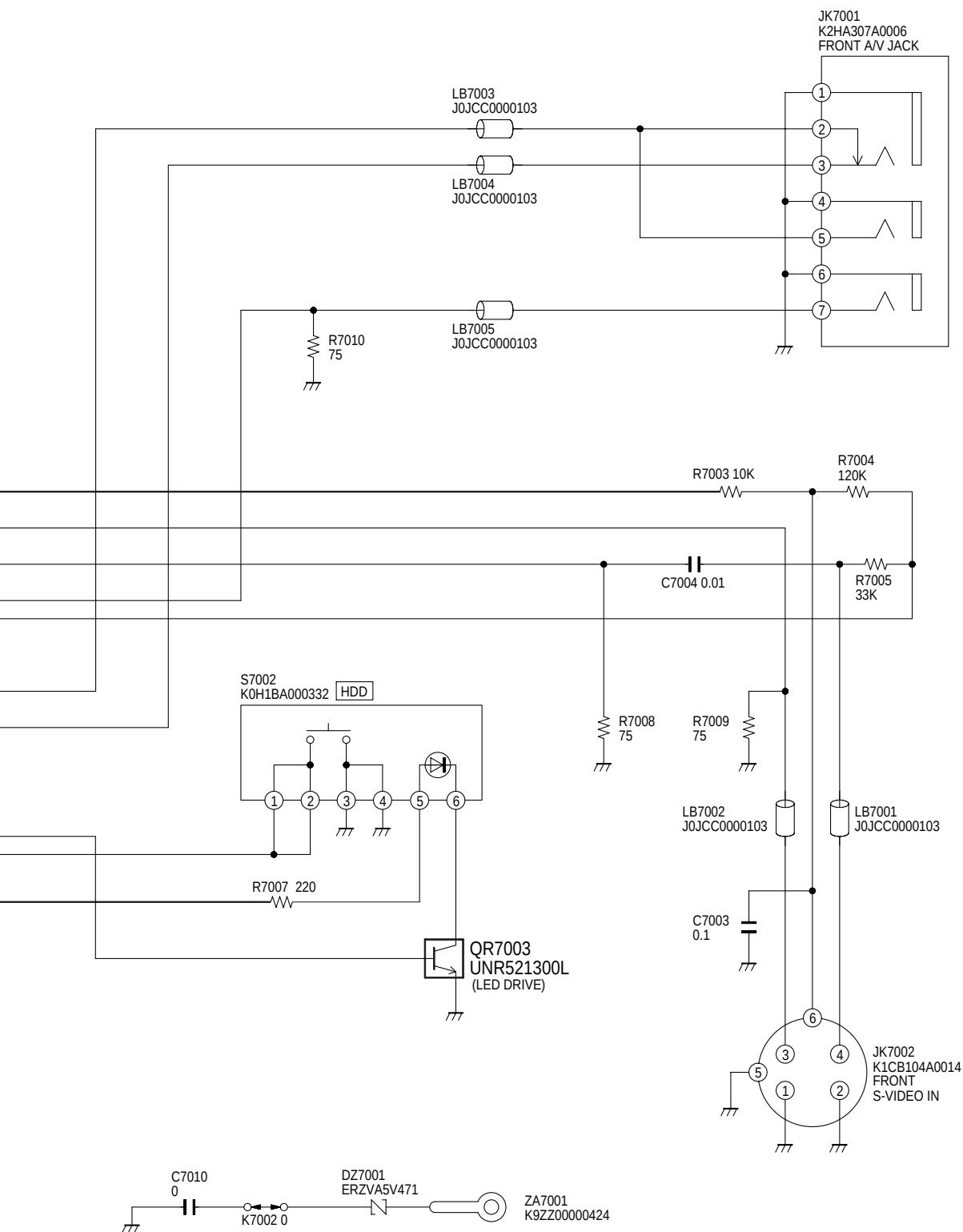


P
gram



15.20. Front (L) Schematic Diagram





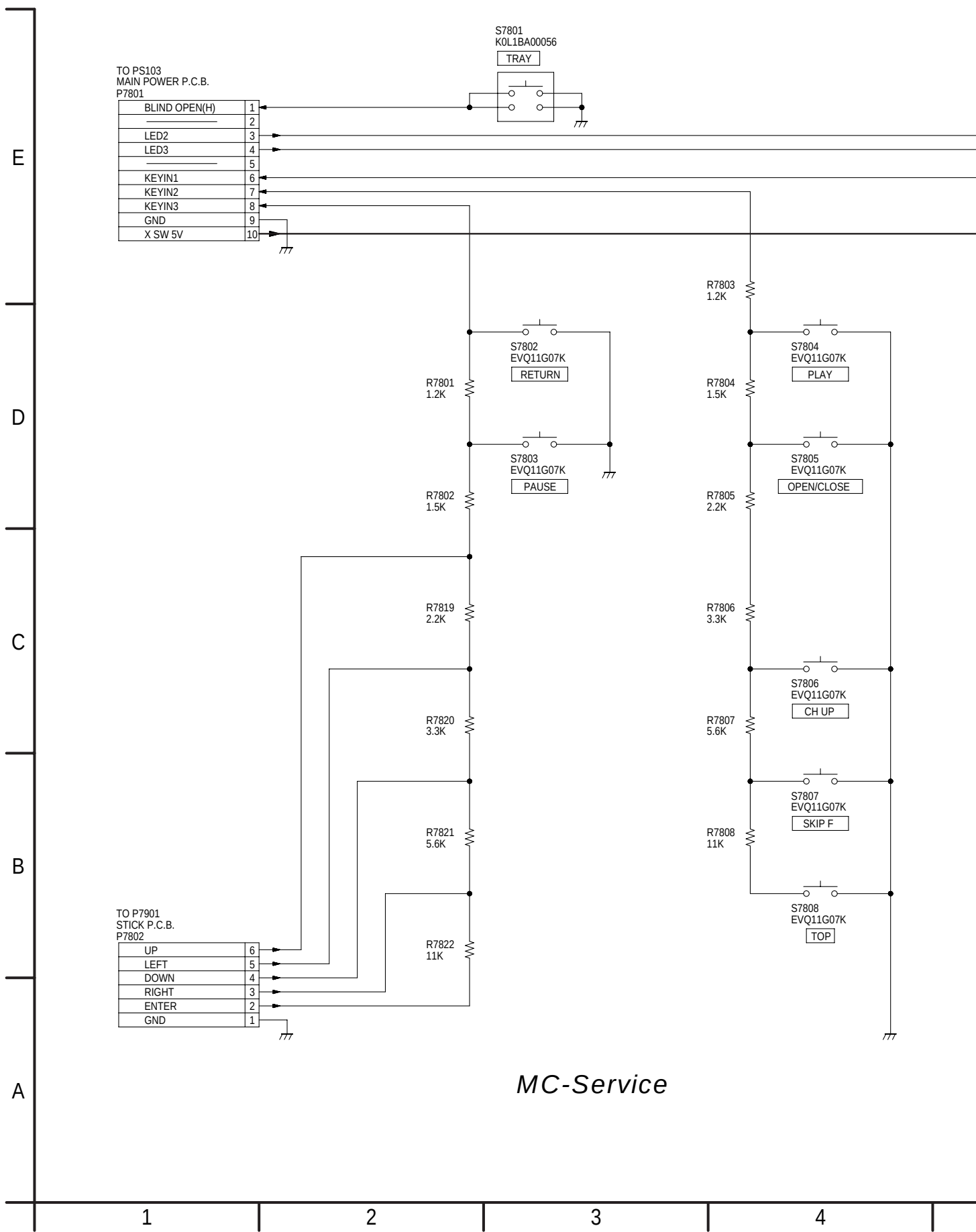
DMR-HS2PP/T3040P
Front (L) Schematic Diagram

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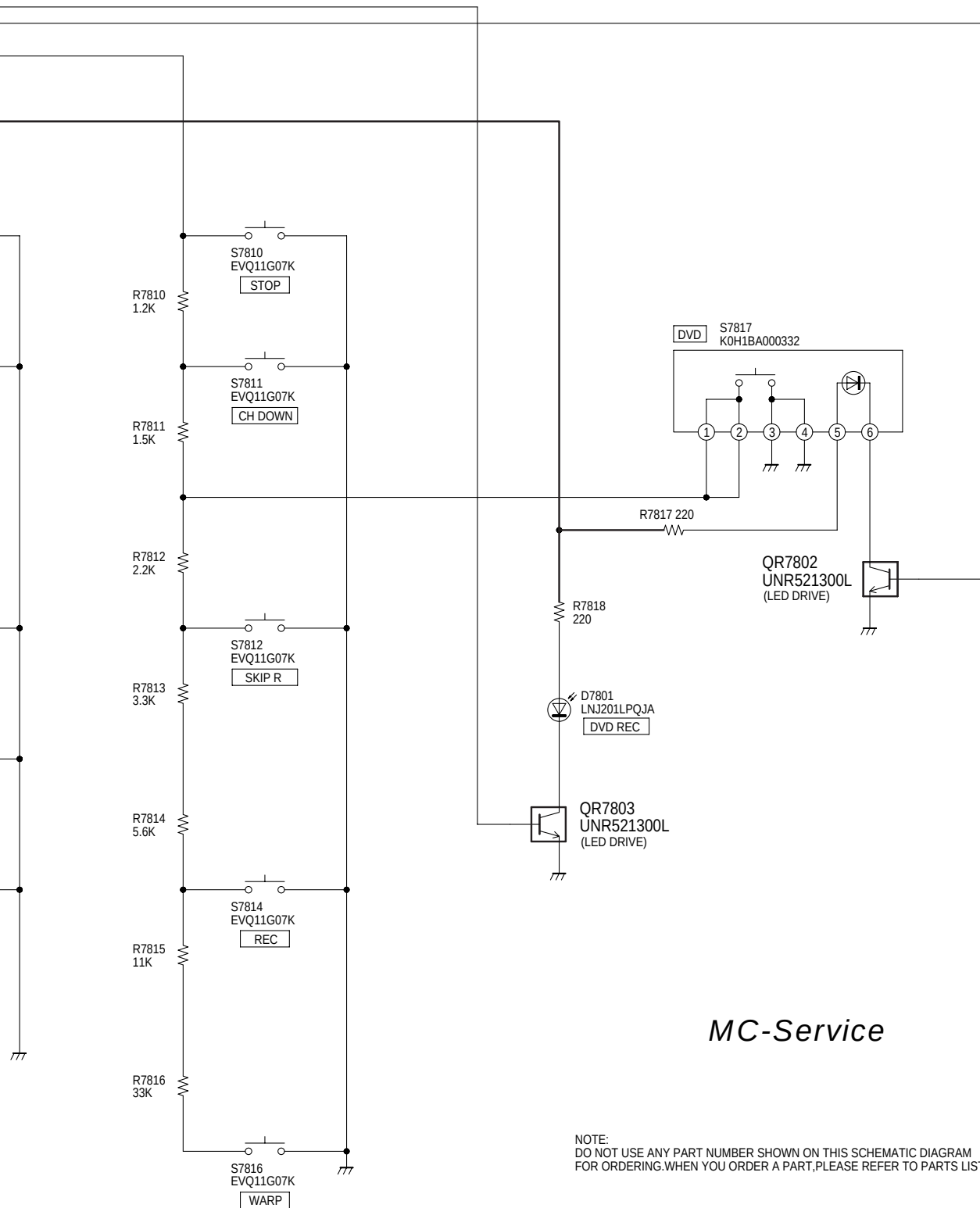
6

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15.21. Front (R) Schematic Diagram



MC-Service



MC-Service

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

DMR-HS2PP/T3040P
Front (R) Schematic Diagram

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